

## Sec. 29-252-1c. State Building Code - Connecticut Supplement

The BOCA National Building Code/1996 of the Building Officials and Code Administrators International, Inc., 1997 International Plumbing Code and 1996 International Mechanical Code of the International Code Council, Inc., 1999 NFPA 70 National Electrical Code of the National Fire Protection Association Inc. and the 1995 CABO One and Two Family Dwelling Code of the Council of American Building Officials, except as amended, altered or deleted by this Connecticut Supplement, are hereby adopted by reference as the State Building Code.

Copies of the State Building Code - Connecticut Supplement are available from the Commission on Official Legal Publications, 111 Phoenix Avenue, Enfield, Connecticut 06082-4453. Copies of the BOCA Codes, the CABO Code and the International Codes may be obtained from Building Officials & Code Administrators International, Inc., 4051 W. Flossmoor Rd., Country Club Hills, IL 60478-5795. Copies of the National Electrical Code may be obtained from the National Fire Protection Association Inc., Batterymarch Park, Quincy, MA 02269.

### 1999 CONNECTICUT SUPPLEMENT INCLUDING THE 2000 AMENDMENTS

**Add:** A section or subsection in the Connecticut Supplement preceded by “Add” indicates the addition of this section or subsection to the adopted referenced standard.

**Amd:** A section or subsection in the Connecticut Supplement preceded by “Amd” indicates the substitution of this section or subsection in the adopted referenced standard.

**Del:** A section or subsection in the Connecticut Supplement preceded by “Del” indicates the deletion of this section or subsection from the adopted referenced standard.

#### Notes:

- 1) Words shown in italics are those words that are specifically defined within the body of the State Building Code.
- 2) Sections of the code preceded by the symbol [A] are as amended by the 2000 Amendments effective April 4, 2000.

## AMENDMENTS TO THE BOCA NATIONAL BUILDING CODE/1996

### CHAPTER 1 - ADMINISTRATION

(Amd) **101.1 Title:** Section 29-252-1c, together with the BOCA National Building Code/1996, the 1997 International Plumbing Code, the 1996 International Mechanical Code, the 1999 National Electrical Code, and the CABO One and Two Family Dwelling Code, 1995 Edition, shall be known as the State Building Code, hereinafter referred to as “the code” or “this code.”

(Add) **101.1.1 Statutes:** In accordance with the provisions of sections 29-252a and 29-253 of the Connecticut General Statutes (C.G.S.), respectively, this code shall be the building code for all towns, cities and boroughs and all state agencies.

(Amd) **104.2 Appointment:** The chief executive officer of any town, city or borough shall appoint an officer to administer this code, and this officer shall be known as the “building official” in accordance with section 29-260, C.G.S., and referred to herein as the building official, local building official or code official.

(Amd) **105.6 Rule making authority:** The State Building Inspector and the Codes and Standards Committee shall, jointly, with the approval of the Commissioner of Public Safety, adopt and administer a State Building Code for the purpose of regulating the design, construction and use of buildings or structures to be erected and the alteration of buildings or structures already erected and make such amendments thereto as they, from time to time, deem necessary or desirable.

(Amd) **106.2 Modifications:** The State Building Inspector may grant variations or exemptions from, or approve equivalent or alternative compliance with the State Building Code where strict compliance with the State Building Code would entail practical difficulty or unnecessary hardship, or is otherwise adjudged unwarranted, provided that the intent of the law shall be observed and public welfare and safety be assured. Any person aggrieved by any decision of the State Building Inspector may appeal to the Codes and Standards Committee within 14 days after mailing of the decision in accordance with subsection (b) of section 29-254, C.G.S.

(Amd) **106.2.1 Records:** The application for modification, variation or exemption and the decision of the State Building Inspector shall be in writing and shall be officially recorded with the application for a building permit in the permanent records of the code official.

(Add) **106.2.2 Accessibility exemption:** Any variation of or exemption from any provisions relating to accessibility to, use of, and egress from, buildings and structures as required herein shall be permitted only when approved by the State Building Inspector and the Executive Director of the Office of Protection and Advocacy for Persons with Disabilities, acting jointly, pursuant to subsection (b) of section 29-269, C.G.S. Any person aggrieved by the joint decision of the State Building Inspector and the Executive Director of the Office of Protection and Advocacy for Persons with Disabilities may appeal to the Codes and Standards Committee within 30 days after such decision has been rendered in accordance with subsection (b) of section 29-269, C.G.S.

(Add) **106.2.3 Historic structures exemption:** See Section 3406.1.

(Add) **106.2.4 Urban homesteading property exemption:** In accordance with section 29-259, C.G.S., exemptions may be granted to the provisions of this code for property acquired by an urban homesteading agency, pursuant to section 8-169r, C.G.S., and transferred to a qualified applicant pursuant to section 8-169s, C.G.S., provided such exemptions shall not affect the safe design, use or construction of such property. Exemptions shall be granted in accordance with Section 106.2 of this code.

(Add) **107.1.2 State agency exemptions:** A State agency shall not be required to obtain a building permit from the local building official. A State agency shall obtain a building permit for construction or alteration of state buildings or structures from the State Building Inspector in accordance with the provisions of section 29-252a, C.G.S.

**Exception:** State agencies shall obtain demolition permits from the local building official in accordance with the provisions of sections 29-401 through 29-415, C.G.S.

(Amd) **107.6.1 Private sewage disposal system:** The site plan shall indicate the location of a private sewage disposal system where a public sewer is not available. Private sewage disposal systems shall be designed and installed in accordance with the requirements of the Public Health Code adopted under authority of section 19a-36, C.G.S. All technical and soil data required by the Public Health Code shall be submitted with the site plan.

(Amd) **107.9 Time limitation of application:** An application for a permit for any proposed work shall be deemed to have been abandoned six months after the date of filing, unless such application has been diligently prosecuted or a permit shall have been issued; except that the code official shall grant not more than two extensions of time for additional periods not exceeding 90 days each if there is reasonable cause. For the purpose of this section, diligently prosecuted shall mean actions by the applicant within the six-month time period or extensions toward the issuance of the permit including, but not limited to, making application for such other state and local approvals as may be required.

(Add) **108.1.1 Construction document review:** Prior to the issuance of a permit, which shall be issued or refused, in whole or in part, within 30 days of the date of application, the code official shall review the construction documents of the buildings or structures to be constructed or altered to determine their substantial compliance with the requirements of the code in effect at the time of receipt of application. In order to meet the 30-day requirement set forth herein, construction documents shall be submitted by the applicant to both the code official and the local fire marshal, concurrently.

(Amd) **109.1 General:** The code official is authorized to issue a permit for the construction of temporary structures of limited size and use. The permits for such structures shall be restricted as to duration of service. In no case shall temporary use or construction be permitted for more than one year.

(Amd) **109.3 Termination of approval:** The code official is hereby authorized to terminate such special approval, revoke the permit issued for temporary construction, and order the demolition of such construction at his or her discretion.

(Add) **110.4 Demolition of structures:** The demolition of structures shall be conducted in accordance with sections 29-401-1 to 29-401-5, inclusive, of the Regulations of Connecticut State Agencies, known as the State Demolition Code, and Section 110.0 and Chapter 33 of this code.

(Amd) **112.3.1 Fee schedule:** Each municipality shall establish a schedule of fees for each construction document review, building permit, and certificate of occupancy. A schedule of adopted fees shall be posted for public view.

(Add) **113.2.3 Posting for required inspections:** A schedule of required inspections shall be compiled by the code official. The schedule shall be posted in the building department for public view.

(Amd) **113.4 Right of entry:** In accordance with the provisions of section 29-261, C.G.S., the building official or his assistant shall have the right of entry to buildings or structures, except single-family residences, for the proper performance of his duties between the hours of nine a.m. and five p.m., except that in the case of an emergency, he shall have the right of entry at any time, if such entry is necessary in the interest of public safety. On receipt of information from the local fire marshal or from any other authentic source that any building in his jurisdiction, due to lack of exit facilities, fire, deterioration, catastrophe or other cause, is in such condition as to be a hazard to any person or persons, the building official or his assistant shall immediately make inspection in accordance with the provisions of section 29-393, C.G.S.

(Add) **114.1.1 Additional requirements:** In accordance with section 29-276c, C.G.S., the plans and specifications for any proposed structure or addition classified as (1) assembly, educational, institutional, high hazard, transient residential, which includes hotels, motels, rooming or boarding houses, dormitories or similar buildings, other than residential buildings designed to be occupied by one or more families, without limitation as to size or number of stories; (2) business, factory and industrial, mercantile, moderate and low hazard storage,

having three stories or more or exceeding 30,000 square feet total gross area; and (3) nontransient residential dwellings having more than 16 units or 24,000 square feet total gross area per building, shall be sealed by a licensed architect or professional engineer. Such design professionals shall be responsible for the review of shop drawings and the observation of construction. In the event such architect or engineer is unable to fulfill his review responsibilities, an additional architect or engineer shall be retained and the local building official shall be informed, in writing, of such retainer. If fabricated structural load-bearing members or assemblies are used in such construction, the licensed professional engineer responsible for the design of such members or assemblies shall be responsible for the implementation of his design by reviewing the fabrication process to ensure conformance with his design specifications and parameters.

(Add) **114.3 Requirements for structures exceeding threshold limits:** For the purposes of this section, the term “threshold limit” shall apply to any structure or addition thereto: (1) having four stories; (2) 60 feet in height; (3) with a clear span of 150 feet in width; (4) containing 150,000 square feet of total gross floor area; or (5) with an occupancy of 1,000 persons.

The following use groups shall have the following additional threshold limits:

<u>Use Group</u>	<u>Threshold Limit</u>
I Institutional	150 beds or persons
R-1 Residential - hotels or motels	Single structure with 200 rooms
R-2 Residential - multi-family	Single structure with 100 dwelling units
S Storage	250,000 square feet or parking structures with 1,000 cars

Pursuant to the requirements of section 29-276b, C.G.S., if a proposed structure or addition will exceed the threshold limit as defined or as provided herein, the owner of the proposed structure or addition shall inform the code official of the municipality in which the building shall be located, or the State Building Inspector pursuant to subsection (b) of section 29-252a, C.G.S., not less than 90 days prior to the submission of any application for permit, and said code official shall require that an independent structural engineering consultant review the structural construction documents of the structure or addition to be constructed to determine compliance with the requirements of the code. Any modifications of approved plans or design specifications shall require shop drawings to determine compliance with the requirements of the code and shall be reviewed by such consultant.

Each architect, professional engineer and general contractor involved in the construction of a structure or addition which exceeds the threshold limits, including the professional engineer responsible for the design of fabricated structural load-bearing members and assemblies used in such construction, shall sign a statement of professional opinion affirming that the completed construction is in substantial compliance with the approved plans and design specifications.

(Add) **114.3.1 Lift slab construction:** Pursuant to subsection (b) of section 29-276a, C.G.S., any building designed to be constructed utilizing the lift slab method of construction shall be classified as exceeding the “threshold limit” and shall be subject to the provisions of Sections 114.3.

(Add) **114.3.2 Lift slab operations:** All buildings and structures utilizing the lift slab method of construction shall comply with the provisions of 29 C.F.R. Part 1926 and Section 31-372-107-1926 of the Regulations of Connecticut State Agencies.

(Amd) **116.4 Violation penalties:** Any person who violates any provision of this code shall be fined not less than two hundred nor more than one thousand dollars or imprisoned not more than six months or both, pursuant to section 29-254a, C.G.S.

(Amd) **117.2 Unlawful continuance:** Any person who shall continue any work in or about the structure after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe conditions, shall be liable for penalties in accordance with Section 116.4.

(Amd) **118.1 General:** A certificate of occupancy, indicating completion of the work for which a permit was issued, shall be obtained prior to any occupancy of a structure except as provided for in Section 118.2. Such certificate of occupancy shall be in accordance with section 29-265, C.G.S., and subsection (b) of section 29-276c, C.G.S.

(Add) **118.1.1 State agency:** State agencies shall not be required to obtain certificates of occupancy from local building officials. State agencies shall obtain certificates of occupancy from the State Building Inspector in accordance with the provisions of section 29-252a, C.G.S.

(Add) **118.1.2 Statement of professional opinion:** In accordance with the provisions of section 29-276c, C.G.S., no certificate of occupancy shall be issued for a proposed structure or addition to buildings classified as (1) assembly, educational, institutional, high hazard, transient residential, which includes hotels, motels, rooming or boarding houses, dormitories or similar buildings, other than residential buildings designed to be occupied by one or more families, without limitation as to size or number of stories; (2) business, factory and industrial, mercantile, moderate and low hazard storage, having three stories or more or exceeding 30,000 square feet total gross area; and (3) nontransient residential dwellings having more than 16 units or 24,000 square feet total gross area per building, until the building official has been provided with a statement signed by the architect or professional engineer and the general contractor stating that the completed structure or addition is in substantial compliance with the approved plans on file.

(Amd) **118.3 Issuance of certificate:** Pursuant to subsection (a) of section 29-265, C.G.S., no building or structure erected or altered in any municipality after October 1, 1970, shall be occupied or used, in whole or in part, until a certificate of occupancy has been issued by the code official, certifying that such building or structure substantially complies with the provisions of the State Building Code. Nothing in the code shall require the removal, alteration or abandonment of, or prevent the continuance of the use and occupancy of, any single-family dwelling but within six years of the date of occupancy of such dwelling after substantial completion of construction of, alteration to, or addition to such dwelling, or of a building lawfully existing on October 1, 1945, except as may be necessary for the safety of life or property. The use of a building or premises shall not be deemed to have changed because of a temporary vacancy or change of ownership or tenancy.

(Add) **118.3.1 Partial occupancy:** A partial certificate of occupancy may be issued by the code official for a portion of the building or structure when, in the code official's sole opinion, adequate egress facilities, accessibility features, and health and safety requirements are in compliance as required herein.

(Add) **118.5 Return of construction documents:** In accordance with the provisions of subsection (e) of section 29-261, C.G.S., the code official shall return construction documents which are on file at the time of the request for the issuance of a certificate of occupancy for any single-family dwelling or out-building to the owner

of such dwelling or building no earlier than two years after the issuance of the certificate of occupancy. Unless a written request for return of such documents was made at the time that the certificate of occupancy was issued, the documents may be disposed of in accordance with the provisions of Chapter 97, C.G.S.

(Add) **119.7 Penalty:** Pursuant to the provisions of section 29-394, C.G.S., any person who, by himself or his agent, fails to comply with the written order of a building inspector, or the mayor of a city, the warden of a borough or the first selectman of a town not having a building inspector, for the provision of additional exit facilities in a building, the repair or alteration of a building or the removal of a building or any portion thereof, shall be fined not more than five hundred dollars or imprisoned not more than six months.

(Amd) **121.1 Appeal from decision of code official:** When the code official rejects or refuses to approve the mode or manner of construction proposed to be followed or the materials to be used in the erection or alteration of a building or structure, or when it is claimed that the provisions of the code do not apply or that an equally good or more desirable form of construction can be employed in a specific case, or when it is claimed that the true intent and meaning of the code has been misconstrued or wrongly interpreted, the permit, in whole or in part, having been refused by the code official, or when the code official issues a written order under subsection (c) of section 29-261, C.G.S., the owner of such building or structure, whether already erected or to be erected, or his authorized agent may appeal in writing from the decision of the code official to the municipal board of appeals. A person, other than such owner, who claims to be aggrieved by any decision of the code official may, by himself or his authorized agent, appeal in writing from the decision of the code official to the municipal board of appeals as provided by section 29-266, C.G.S.

(Add) **121.1.1 State Building Inspector review:** In accordance with the provisions of section 29-252, C.G.S., the State Building Inspector or his designee shall review a decision by a local building official or municipal board of appeals appointed pursuant to section 29-266, C.G.S., when he has reason to believe that such official or board has misconstrued or misinterpreted any provision of the State Building Code.

(Amd) **121.2 Appointment of municipal board of appeals:** A municipal board of appeals consisting of five members shall be appointed in accordance with the provisions of subsection (a) of section 29-266, C.G.S.

(Amd) **121.2.1 Qualifications:** One member of the board of appeals shall be appointed from the general public. The other four members shall have at least five years experience each in either building design, building construction, or supervision of building construction.

(Amd) **121.3 Notice of meeting:** Each appeal under this subsection shall be heard in the municipality for which the code official serves within five days, exclusive of Saturdays, Sundays, and legal holidays, after the date of receipt of the appeal.

(Amd) **121.4.1 Determination of aggrievement:** Upon receipt of an appeal from a person other than the owner or his agent, the board of appeals shall first determine whether such person has a right to appeal.

(Add) **121.4.2 Appointment of a panel:** Upon receipt of an appeal from an owner or his agent, or approval of an appeal by a person other than the owner, the chairman of the municipal board of appeals shall appoint a panel of not less than three members of such board to hear such appeal.

(Del) **121.5 Postponed hearing:** Delete without substitution.

(Amd) **121.6 Rendering of decisions:** The panel shall, upon majority vote of its members, affirm, modify or reverse the decision of the code official in a written decision upon the appeal and file such decision with the

code official from whom such appeal has been taken not later than five days, exclusive of Saturdays, Sundays and legal holidays, following the day of the hearing thereon. A copy of the decision shall be mailed, prior to such filing, to the party taking the appeal.

(Amd) **121.7 Appeal to the Codes and Standards Committee:** Any person aggrieved by the decision of a municipal board of appeals may appeal to the Codes and Standards Committee within 14 days after the filing of the decision with the code official in accordance with the provisions of section 29-266, C.G.S.

(Add) **121.8 Court review:** Any person aggrieved by any ruling of the Codes and Standards Committee may appeal to the Superior Court for the judicial district where such building or structure has been or is being erected.

## CHAPTER 2 - DEFINITIONS

(Amd) **201.3 Terms defined in other codes:** Where terms are not defined in this code and are defined in the Plumbing, Mechanical, Electrical, One and Two Family portions of this code, the Fire Safety Code, or in ICC/ANSI A117.1, formerly entitled CABO/ANSI A117.1, as listed in Chapter 35, they shall have the meanings ascribed to them in those national codes set forth in Section 101.1, amendments to the BOCA National Building Code/1996.

**Exception:** Terms defined in statutory provisions shall be construed in accordance with the provisions of Chapter 1, C.G.S.

(Amd) **SECTION 202.0 GENERAL DEFINITIONS** Add or amend the following definitions:

[A] (Amd) **Approved agency:** See Section 1702.0

(Add) **Attic, habitable:** See Section 1202.1

(Add) **Building official:** Shall mean the code official as defined in the BOCA National Building Code/1996 portion of the State Building Code.

(Add) **Complex:** See Section 1102.1.

### Dwellings:

[A] (Add) **Bed and breakfast establishment:** See Section 310.2.

(Add) **Hotel.** See Section 310.2.

[A] (Add) **Guest Room:** See Section 310.2

[A] (Del) **Residential board and care facilities.** Delete without substitution.

(Add) **Historic building:** See Section 3406.2.

(Add) **Plans and specifications.** See Construction Documents.

(Amd) **Registered design professional:** An architect, engineer or interior designer, registered or licensed to practice professional architecture, engineering or interior design, as defined by the statutory requirements of the professional registration laws of the State of Connecticut, and acting within the scope of his or her practice.

(Amd) **Story:** See Section 502.0 and Section 1102.1.

(Add) **Street floor:** See Section 1102.1.

### CHAPTER 3 - USE OR OCCUPANCY

(Amd) **305.1.1 Day care facilities:** A day care facility which provides care for more than six persons more than 2 1/2 years of age for less than 24 hours per day shall be classified as Use Group E.

(Amd) **308.3.1 Child care facility:** A child care facility which accommodates more than six children 2 1/2 years of age or less for any length of time shall be classified as Use Group I-2.

(Amd) **310.2 Definitions:** The following words or terms shall, for the purposes of this section and as used elsewhere in this code, have the meanings shown herein.

#### Dwellings:

[A] (Add) **Bed and breakfast establishment:** A building that does not qualify as a *one- or two-family dwelling unit* in accordance with Section 310.5 and which contains only: The *owner's dwelling unit* and *guest rooms* without permanent provisions for cooking, with a total building *occupant load* of not more than 16 persons (see Section 310.3.1).

[A] (Add) **Guest room:** A space in a Use Group R-1 structure providing sleeping accommodations in one room, or in a series of closely associated rooms.

(Add) **Hotel:** Any building containing six or more guest rooms, intended or designed to be used, or which are used, rented or hired out to be occupied or which are occupied for sleeping purposes by guests.

[A] (Del) **Residential board and care facilities:** Delete without substitution.

[A] (Add) **310.3.1 Use Group R-1 bed and breakfast establishments:** A building that the *owner* occupies or that is adjacent to a building that the owner occupies as his/her primary place of residence, has a total building *occupant load* of not more than 16 persons including the owner-occupants, and has no provisions for cooking or warming food in the guest rooms. A Use Group R-1 *bed and breakfast establishment* shall not be permitted within a mixed use building. A fire evacuation plan shall be prominently posted on the inside of each guest room door.

[A] (Add) **310.3.1.1 Kitchens in Use Group R-1 bed and breakfast establishments:** Kitchens in Use Group R-1 *bed and breakfast establishments* shall be separated by 1/2-hour rated fire separation assemblies.

#### Exceptions:

1. Fire separation assemblies shall not be required when the kitchen is protected by a *limited area sprinkler system*.
2. Fire separation assemblies shall not be required when the kitchen is equipped with a listed residential range top extinguisher unit or an approved commercial kitchen hood with a listed, approved automatic fire suppression system.
3. The structural members supporting the rated assemblies shall not be required to be fire-resistance rated.

[A] (Amd) **310.5 Use Group R-3 structures:** This use group shall include all buildings arranged for occupancy as *one- or two-family dwelling units*, including not more than six lodgers or boarders per family and *multiple single-family dwellings* where each unit has an independent *means of egress* and is separated by a 2-hour *fire separation assembly* (see Section 709.0).



**Exceptions:**

1. In *multiple single-family dwellings* that are equipped throughout with an approved *automatic sprinkler system* installed in accordance with Section 906.2.1 or 906.2.2, the fire-resistance rating of the *dwelling unit* separation shall not be less than 1 hour. *Dwelling unit* separation walls shall be constructed as *fire partitions* (see Section 711.0).
2. In *multiple single-family dwellings* that are equipped throughout with an approved *automatic sprinkler system* installed in accordance with Section 906.2.3, the fire-resistance rating between each *dwelling unit* shall not be less than 1 hour and shall be constructed as a *fire partition*.

(Amd) **310.5.1 Child care facilities:** As defined in subsection (a)(3) of section 19a-77, C.G.S., a child care facility which accommodates six or fewer children of any age shall be classified as Use Group R-3. During the regular school year, a maximum of three additional children who are in school full time, including the provider's own children, shall be permitted, except that if the provider has more than three children who are in school full time, all of the provider's children shall be permitted.

(Amd) **310.6 Use Group R-4 structures:** This use group shall include all detached *one- or two-family dwellings*, as defined in the BOCA National Building Code/1996 portion of the State Building Code and one-family townhouses, as defined in the one- and two-family dwelling code listed in Chapter 35, not more than two stories and 35 feet in height, plus habitable attic, 4,800 square feet per floor, and the *accessory structures* as indicated in the one- and two-family dwelling code listed in Chapter 35. All such structures shall be designed and constructed in accordance with the one- and two-family dwelling code listed in Chapter 35 unless the applicant chooses at the time of permit application to follow the requirements of this code applicable to Use Group R-3. Once the R-3 or R-4 Use Group has been determined, the applicable portions of the code governing such use group shall be followed in their entirety.

**CHAPTER 4 - SPECIAL USE AND OCCUPANCY**

(Amd) **402.5.9 Service areas fronting on exit passageways and corridors:** Mechanical rooms, electrical rooms, building service areas and service elevators are permitted to open directly into *exit* passageways and *exit corridors* provided that the required fire resistance rating of the *exit* enclosure is maintained and that such rooms or areas are protected by an approved automatic sprinkler system installed in accordance with Section 906.0.

(Amd) **407.3 Beneath rooms:** *Private garages* located beneath habitable rooms in occupancies in Use Group R-1, R-2, or I-1 shall be separated from adjacent interior spaces by *fire partitions* and floor/ceiling assemblies which are constructed with not less than a 1-hour fire resistance rating. *Private garages* located beneath habitable rooms in occupancies in Use Group R-3 shall be separated from adjacent interior spaces by minimum 5/8-inch type X gypsum board on the garage side of all walls, ceilings and combustible structural supports. Gypsum board joints shall be finished in accordance with the manufacturer's requirements.

**Exception:** Wood structural members of the minimum dimensions specified in Section 2304.0 for Type 4 construction shall be acceptable without any further protection.

(Amd) **407.4 Attached to rooms:** *Private garages* attached side by side to rooms in occupancies in Use Group R-1, R-2, R-3, or I-1 shall be completely separated from the interior spaces and the *attic* area by means of minimum 5/8-inch type X gypsum board applied to the garage side. Gypsum board joints shall be finished in accordance with the manufacturer's requirements.

(Amd) **407.6 Opening protectives:** The door opening protectives shall comply with one of the following.

1. 1 ¾-inch solid core wood door, or
2. 1 ¾-inch solid or honeycomb core steel door, or
3. 20-minute rated fire door.

Doors shall be fitted with a self-closing device.

(Amd) **412.2 Definitions:** The following shall, for the purpose of this section and as used elsewhere in this code, have the meaning shown herein.

(Amd) **Platform:** The raised area within a building used for the presentation of music, plays, or other entertainment; the head tables for special guests; the raised area for lecturers and speakers; boxing and wrestling rings; theater-in-the round; and for similar purposes wherein there are no overhead drops, pieces of scenery, or stage effects other than lighting and a screening valance. A temporary platform is one installed for use for not more than 30 days.

(Amd) **418.3.3 Liquefied petroleum gas distribution facilities:** The design and construction of propane, butane, propylene, butylene and other liquefied petroleum gas distribution facilities shall conform to the applicable provisions of Sections 418.3.3.1 through 418.3.3.5.2 and regulations adopted pursuant to section 29-331, C.G.S. The storage and handling of liquefied petroleum gas systems shall conform to the fire safety code listed in Chapter 35. The design and installation of piping, equipment and systems which utilize liquefied petroleum gas shall be in accordance with the mechanical code listed in Chapter 35. Liquefied petroleum gas distribution facilities shall be *ventilated* in accordance with the mechanical code listed in Chapter 35 and Section 418.3.3.1.

(Add) **421.1.1 Health Department regulation:** No person shall construct, substantially alter or reconstruct a swimming pool, other than for a single-family residence, until the construction documents and water discharge provisions have been approved by the Department of Public Health, in accordance with the regulations adopted pursuant to section 19a-36, C.G.S.

(Add) **421.10.5 Temporary enclosures:** A temporary enclosure shall be installed in accordance with Section 3304.2 prior to the commencement of the installation of any in-ground swimming pool.

**Exception:** Where a permanent enclosure is provided prior to excavation.

(Add) **421.12 Accessibility:** Public swimming pools, when less than 50 meters in length, shall be provided with ramps or approved fixed or portable lifting equipment for the purpose of providing assisted access to the water for persons with disabilities. Public swimming pools, when 50 meters or more in length, shall be provided with ramps. All public swimming pools, pool decks, toilet facilities, showers, locker and dressing areas shall be accessible and located along accessible routes.

(Add) **421.12.1 Slopes and handrails:** The slopes of ramps for accessibility, where required, shall not exceed one unit vertical to eight units horizontal (1:8) where located at least 24 inches below the water line and one unit vertical to 12 units horizontal (1:12) above that point. Ramps shall be provided with handrails on both sides in accordance with Section 1022.0.

## CHAPTER 5 - GENERAL BUILDING LIMITATIONS

(Amd) **502.1 General:** The following words or terms shall, for the purposes of this chapter and as used elsewhere in this code, have the meanings shown herein.

(Amd) **Mezzanine:** An intermediate level or levels between the floor and ceiling of any story which has *habitable or occupiable space* below it that is part of the story in which the mezzanine occurs and which has an aggregate floor area of not more than one-third of the area of the room in which the level or levels are located (see Section 505.0).

[A] (Add) **504.8 Use Group R-1 bed and breakfast establishments:** The height limitation for existing buildings of Type 5B construction undergoing a *change of occupancy* from Use Group R-3 to Use Group R-1 *bed and breakfast establishments* shall be increased one story and 5 feet from the values in Table 503 where 1-hour fire resistance rated assemblies are constructed between the second and third floors.

**Exception:** The structural members supporting the rated assemblies shall not be required to be fire resistance rated.

## CHAPTER 9 - FIRE PROTECTION SYSTEMS

(Amd) **902.1 General:** The following words or terms shall, for the purposes of this chapter and as used elsewhere in this code, have the meanings shown herein.

(Amd) **Sprinkler system, limited area:** An *automatic sprinkler system* consisting of not more than six *sprinklers* within a *fire area* (see Section 907.0).

(Amd) **904.1 Where required:** *Automatic fire suppression systems* shall be installed where required by this code and in the locations indicated in Sections 904.2 through 904.11. Pursuant to section 29-315, C.G.S., *automatic fire suppression systems* shall be installed in any building or structure more than four stories tall and used for human occupancy, in any hotel or motel with six or more guest rooms and providing sleeping accommodations for more than 16 persons, in any residential building having more than 12 units with 80 percent of the dwelling units available having at least one resident who has attained the age of 65, and in other occupancies as required by the State Fire Marshal in the interest of safety because of special occupancy hazards.

### Exceptions:

1. An *automatic fire suppression system* shall not be required in portions of buildings that comply with Section 406.0 for open parking structures.
2. In telecommunications equipment buildings, an *automatic fire suppression system* shall not be required in those spaces or areas occupied exclusively for telecommunications equipment, associated electrical power distribution equipment, batteries and standby engines, provided that those spaces or areas are equipped throughout with an automatic fire detection system in accordance with Section 919.0 and are separated from the remainder of the building with *fire separation assemblies* consisting of 1-hour fire resistance rated walls and 2-hour fire resistance rated floor/ceiling assemblies.
3. An *automatic fire suppression system* shall not be required over swimming pool water surfaces located within the room or space of any use group.

(Amd) **904.2 Use Groups A-1, A-3 and A-4:** Where a Use Group A-1, A-3 or A-4 *fire area* exceeds 12,000 square feet in area, an *automatic fire suppression system* shall be provided as follows:

1. Throughout the entire story or floor level where the A-1, A-3 or A-4 Use Group is located;
2. Throughout all stories and floor levels below the A-1, A-3 or A-4 Use Group; and
3. Throughout all intervening stories and floor levels between the A-1, A-3 or A-4 Use Groups and the highest *level of exit discharge* that serves Use Group A-1, A-3 or A-4 *fire areas*, including the highest *level of exit discharge*.

**Exceptions:**

1. Naves and chancels of Use Group A-4 where the main floor of the nave or chancel is at the *level of exit discharge* of the main entrance.
2. Participant sport areas of Use Group A-3 where the main floor of the participant sport area is at the *level of exit discharge* of the main entrance, and with no audience facilities for more than 300 persons.

(Amd) **904.4 Use Group E:** An *automatic fire suppression system* shall be provided throughout all buildings having a Use Group E *fire area* which exceeds 20,000 square feet in area. Every portion of Use Group E buildings below the *level of exit discharge* shall be protected by an approved *automatic sprinkler system*.

(Amd) **904.7 Use Groups M, S-1 and F-1:** Throughout all buildings with a Use Group M, S-1 or F-1 *fire area*, an *automatic fire suppression system* shall be provided as follows:

1. Where any Use Group M, S-1 or F-1 *fire area* exceeds 12,000 square feet in area;
2. Where the total combined area of all Use Group M, S-1 and F-1 *fire areas* on all floors exceeds 24,000 square feet;
3. Where any Use Group M, S-1 or F-1 *fire area* is more than *three stories above grade*; or
4. In Use Group M throughout stories below the *level of exit discharge* where such stories have an area exceeding 2,500 square feet where used for the sale, storage, or handling of combustible goods and merchandise.

**Exception:** *Public garages* shall conform to Section 408.0.

[A] (Amd) **904.8: Use Group R-1:** An *automatic fire suppression system* shall be provided throughout all buildings with a Use Group R-1 *fire area* in accordance with Section 906.2.1 or 906.2.2.

**Exceptions:**

1. Where all guest rooms are not more than three stories above the lowest *level of exit discharge* of the *exits* serving the guest rooms. Each guest room shall have at least one door opening directly to an exterior *exit access* which leads directly to the *exits*.
2. Use Group R-1 *bed and breakfast establishments*.

(Amd) **904.9 Use Group R-2:** An *automatic fire suppression system* shall be provided throughout all buildings with an occupancy in Use Group R-2 in accordance with Section 906.2.1 or 906.2.2.

**Exceptions:**

1. Buildings which do not exceed two stories, including *basements* which are not considered as a *story above grade*, and with a maximum of 12 *dwelling units* per *fire area*. Each *dwelling unit* shall have at least one door opening to an exterior *exit access* that leads directly to the *exits* required to serve that *dwelling unit*.
2. Existing Use Group R-3 buildings converted to Use Group R-2, which do not exceed three families, and which do not increase the height or area of the existing building.

(Amd) **907.2.1 Within a fire area:** A *limited area sprinkler system* shall be permitted within one *fire area* provided that six *sprinklers* or less are required, based on the spacing limitations of NFPA 13 listed in Chapter 35.

(Amd) **907.2.2 Special occupancy areas:** A *limited area sprinkler system* shall be permitted within special occupancy areas as designated in Chapter 4 or within specific occupancy areas as designated in Section 302.1.1, provided that the area is enclosed within *fire separation assemblies* as required by this code, and six *sprinklers* or less are required to protect each separately enclosed area. Where nonfireresistance rated separation walls are permitted by Table 302.1.1 to enclose contiguous specific occupancy areas on one floor, the areas shall be considered to be one separately enclosed area for the purpose of determining the number of *sprinklers*.

(Amd) **915.1 General:** *Standpipe systems* shall be installed and maintained in accordance with the provisions of this code and NFPA 14 listed in Chapter 35. The class of service shall be as specified by the local fire marshal during the 30-day plan review period and reported to the code official.

(Amd) **918.4.1 Use Group A or E:** A fire alarm system shall be installed and maintained in all occupancies in Use Group A or E.

**Exceptions:**

1. A fire alarm system shall not be required for sanctuary and nave areas of churches and similar religious buildings of Use Group A-4.
2. A fire alarm system shall not be required for Assembly occupancies with occupant loads of 300 or fewer persons.
3. A fire alarm system shall not be required for theaters of Use Group A-1 with only one audience-viewing room.
4. A fire alarm system shall not be required for Educational occupancies of Use Group E with a maximum area of 1000 square feet that contain a single classroom and are located not closer than 50 feet from another building.

(Amd) **918.4.2 Use Group B:** A fire alarm system shall be installed and maintained in all occupancies in Use Group B where such buildings have occupied floors which are two or more stories above the lowest *level of exit discharge*; or which have floors two or more stories below the highest *level of exit discharge*; or which have an occupancy of 300 or more total occupants.

(Add) **918.4.6.1 Use Group R-2 Dormitories:** A fire alarm system shall be installed and maintained in all Use Group R-2 Dormitories.

[A] (Amd) **919.4.4 Use Group R-1:** An automatic fire detection system shall be installed and maintained in all occupancies in Use Group R-1.

**Exceptions:**

1. An automatic fire detection system is not required in buildings that do not have interior *corridors* serving guest rooms and where all guest rooms have a *means of egress* door opening directly to an exterior *exit access* which leads directly to the *exits*.
2. System smoke detectors are not required in guest rooms provided that the single-station detectors required by Section 920.3.1 are connected to the emergency electrical system and are annunciated

by guest room at a constantly attended location from which the fire alarm system is capable of being manually activated.

3. An automatic fire detection system is not required in Use Group R-1 *bed and breakfast establishments* (see Section 920.3.1.1).

[A] (Add) **920.3.1.1 Use Group R-1 *bed and breakfast establishments*:** An approved household fire warning system in accordance with the requirements of NFPA 72, referenced in Chapter 35, consisting of a control unit with smoke detectors, a manual fire alarm box on each floor and occupant notification shall be installed in all Use Group R-1 *bed and breakfast establishments*. A heat detector shall be installed in the kitchen.

(Add) **920.3.2.1 Alterations and additions:** When alterations or additions requiring a permit occur, or when one or more sleeping rooms are added or created in existing dwellings, the entire building shall be provided with smoke detectors located as required for new dwellings. Such smoke detectors within existing spaces may be battery operated and are not required to be dual powered or interconnected unless other remodeling considerations require removal of wall and ceiling coverings which would facilitate concealed interconnected wiring.

(Add) **920.3.4 Day care and child care occupancies:** Single- or multiple-station smoke detectors shall be installed and maintained in all day care and child care occupancies in the following locations:

1. In each story in front of doors to the stairways;
2. In the corridors of all floors occupied by the day care or child care occupancy; and
3. In lounges, recreation areas and sleeping rooms in the day care or child care occupancy.

**Exception:** Day care or child care occupancies housed in one room.

[A] (Amd) **921.2 Where required:** A portable fire extinguisher shall be installed in the following locations in accordance with NFPA 10, listed in Chapter 35:

1. In all occupancies in Use Group A-1, A-2, A-3, E, I-2, R-1 or H;  
**Exception to 1:** In Use Group R-1 *bed and breakfast establishments*, portable fire extinguishers shall only be required to be located in kitchens. All portable fire extinguishers shall be installed and maintained in accordance with NFPA 10, listed in Chapter 35. A listed residential range top extinguisher unit or an approved commercial kitchen hood with a listed, approved automatic fire suppression system shall be permitted to be installed in lieu of the installation of a portable fire extinguisher in the kitchen.
2. In all areas containing commercial kitchen exhaust hood systems;
3. In all areas where fuel is dispensed;
4. In all areas where a *flammable* or *combustible liquid* is used in the operation of spraying, coating or dipping;
5. In all occupancies in Use Group I-3 at staff locations. Access to portable extinguishers shall be permitted to be locked;
6. On each completed floor of buildings under construction, other than occupancies in Use Group R-3;
7. In any laboratory, shop or other room occupied for similar purposes; and
8. Where required by the fire prevention code listed in Chapter 35.

## CHAPTER 10 - MEANS OF EGRESS

(Amd) **1005.5 Open-sided walking areas:** Guards shall be located along open-sided walking surfaces, *mezzanines*, *stairways*, ramps and landings which are located more than 30 inches above the floor or grade below. The guards shall be constructed in accordance with Section 1021.0.

**Exception:** Guards are not required for the following locations:

1. On the loading side of loading docks.
2. On the auditorium side of *stages* and raised *platforms*.
3. On raised *stage* and *platform* floor areas such as runways, ramps and side *stages* utilized for entertainment or presentations.
4. At vertical openings in the performance area of *stages* and *platforms*.
5. At elevated walking surfaces appurtenant to *stages* and *platforms* for access to and utilization of special lighting or equipment.

(Amd) **1006.4.1 Remoteness:** Where two *exits* or two *exit access* doors are required, each shall be placed a distance apart equal to not less than one-half of the length of the maximum overall diagonal dimension of the building or area to be served. Where *exit* enclosures are provided as a portion of the required *means of egress* and are interconnected by a *corridor* conforming to the requirements for *corridor* construction, the *exit* separation distance shall be measured along the line of travel within the *corridor*. In all other cases, the separation distance shall be measured in a straight line between *exits* or *exit access* doors.

**Exception:** In buildings equipped throughout with an *automatic sprinkler system* in accordance with Section 906.2.1 or 906.2.2, the minimum separation distance shall be one-third of the length of the maximum overall diagonal dimension.

(Amd) Table 1006.5  
LENGTH OF EXIT ACCESS TRAVEL<sup>a</sup>

Use Group	Without Sprinkler System (feet)	With Sprinkler System (feet) <sup>b</sup>
A, E	150	200
I-2 <sup>c</sup>	NP	200
I-3	150	200
R	175	250
I-1	NP	250
M	100	200
B, F-1, S-1, U	200	250
F-2, S-2	300	400
H-1	25	75
H-2	50	100
H-3	100	150
H-4	25	175

NP: Not permitted.

**Note a.** See the following sections for modifications to travel distance requirements:

Section 402.5.1: For the exit access travel distance limitation in malls.

Section 404.7: For the exit access travel distance limitation through an atrium space.

Section 416.6: For the exit access travel distance limitation in hazardous production material (HPM) use facilities.

Section 1006.5.1: For increased limitation in Use Groups F-1 and S-1.

Section 1006.5.2: For increased limitation in Use Group A-5.

Section 1010.3: For buildings with one exit.

Section 3104.9: For the exit access travel distance limitation in temporary structures.

**Note b.** Buildings equipped throughout with an *automatic sprinkler system* in accordance with Section 906.2.1 or 906.2.2

**Note c.** For exception see Section 904.6.

(Add) **1007.7 Turnstiles:** Buildings which utilize turnstiles to control traffic shall provide a clearly marked alternate route for the physically disabled which is at least 36 inches wide, provides at least 20 percent of the required ingress and egress, and is unlocked during business hours.

**(Amd) Table 1009.2  
EGRESS WIDTH PER OCCUPANT**

Use Group	Without sprinkler system (inches per person)		With sprinkler system <sup>a</sup> (inches per person)	
	Stairways	Doors, ramps and corridors	Stairways	Doors, ramps and corridors
A,B,E,F,M,R,S,U	0.3	0.2	0.3	0.2
I-1	NP	NP	0.4	0.2
I-2 <sup>b</sup> , I-3	NP	NP	0.3	0.2
H	0.7	0.4	0.7	0.4

NP: Not permitted.

**Note a.** Buildings equipped throughout with an *automatic sprinkler system* in accordance with Section 906.2.1 or 906.2.2.

**Note b.** For exception see Section 904.6. Where this exception applies, the values for buildings without an *automatic sprinkler system* shall be 1.0 for stairways and 0.7 for doors, ramps and corridors.

[A] (Amd) **1010.3 Buildings with one exit:** Only one *exit* shall be required in:

1. Occupancies in the use groups shown in Table 1010.3, provided that the building has not more than one level below the *level of exit discharge*;
2. Occupancies in Use Group R-3; and
3. Occupancies in Use Group R-1 *bed and breakfast establishments*.

**(Amd) Table 1010.3  
BUILDINGS WITH ONE EXIT**

Maximum	Maximum per floor	Maximum per floor
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Use Group	number of stories above grade	occupants, travel distance <sup>d</sup> or dwelling units per floor unsprinklered	occupants, travel distance <sup>d</sup> or dwelling units per floor fully sprinklered
A,B,E,F,M-3	1 story	49 occupants and 75 feet travel	49 occupants and 75 feet travel
H-3	1 story	3 occupants and 50 feet travel	3 occupants and 100 feet travel
H-4,	1 story	10 occupants and 75 feet travel	10 occupants and 100 feet travel
S <sup>a</sup>	1 story	30 occupants and 100 feet travel	30 occupants and 100 feet travel
I,R	1 story	10 occupants and 75 feet travel	10 occupants and 75 feet travel
B <sup>b</sup> ,F,M,S <sup>a</sup> ,U	2 stories	30 occupants and 75 feet travel	30 occupants and 100 feet travel
R-2	2 stories <sup>c</sup>	4 dwelling units	4 dwelling units

**Note a.** For the required number of exits for open parking structures, see Section 1010.5.

**Note b.** For the required number of exits for air traffic control towers, see Section 414.0.

**Note c.** Buildings equipped throughout with an *automatic sprinkler system* in accordance with Section 906.2.1 or 906.2.2 with an occupancy in Use Group R-2 shall have a maximum height of three stories above grade.

**Note d.** 1 foot = 304.8 mm.

[A] (Amd) **1010.4 Emergency escape and rescue:** At least one operable window or exterior door approved for emergency escape and rescue shall be provided in the following locations:

1. In every sleeping room below the fourth story in occupancies in Use Groups R and I-1.
2. In day care occupancies regardless of use group in every room or space normally subject to client occupancy, other than bathrooms.
3. In every room or space greater than 250 square feet in Use Group E used for classroom or educational purposes or normally subject to student occupancy.

Each emergency escape and rescue window shall have a minimum net clear opening of 5.7 square feet. The net clear opening shall be at least 24 inches in height and at least 20 inches in width. The net clear opening dimensions shall be obtained by the normal operation of the window from the inside. Where windows are provided for emergency escape and rescue, the windows shall have the bottom of the clear opening not more than 44 inches above the floor. The clear opening shall permit a rectangular solid, with the minimum specified width and height that provides the required 5.7 square foot opening and a minimum depth of 20 inches to pass fully through the opening.

Bars, grilles or screens placed over emergency escape and rescue windows shall be releasable or removable from the inside without the use of a key, tool or force greater than that which is required for normal operation of the window.

#### Exceptions:

1. An outside window or an exterior door for emergency escape and rescue is not required in buildings equipped throughout with an *automatic sprinkler system* in accordance with Section 906.2.1 or 906.2.2 as determined by use group.
2. In Use Groups R and I-1, an outside window or an exterior door for emergency escape and rescue is not required where the sleeping room is provided with a door to a *corridor* having access to two remote *exits* in opposite directions.
3. In existing buildings undergoing a change of occupancy to Use Group R-1 *bed and breakfast establishments*, the net clear opening dimensions shall be permitted to be obtained by removal of the sash without the use of a key or tool provided that the instructions for the removal of the sash are clearly posted on the inside of each guest room door.

(Amd) **1011.2 Dead ends:** *Exit access* passageways and *corridors* in all stories which serve more than one *exit* shall provide direct connection to such *exits* in opposite directions from any point in the passageway or *corridor*, insofar as practicable. The length of a dead-end passageway or *corridor* shall not be more than 20 feet.

**Exceptions:**

1. In occupancies in Use Group I-3 of Occupancy Conditions II, III or IV (see Section 308.4), the dead end in a *corridor*, hallway or aisle shall not exceed 50 feet.
2. In occupancies in Use Group B where passageways are bounded by furniture, counters, partitions or similar dividers not more than 6 feet in height, the length of a dead-end passageway shall not be more than 50 feet.
3. In occupancies in Use Group B where the building is equipped throughout with an *automatic sprinkler system* in accordance with Section 906.2.1, the length of dead-end *corridors* or passageways shall not exceed 50 feet.
4. Passageways or *corridors* within spaces with one *means of egress*.
5. A dead-end passageway or *corridor* shall not be limited in length where the length of the dead-end passageway or *corridor* is less than 2.5 times the least width of the dead-end passageway or *corridor*.
6. Dead-end *corridors* are prohibited in Use Group H occupancies.

[A] (Amd) **1011.4 Enclosure:** All *corridors* shall be fire-resistance rated in accordance with Table 1011.4, based on the use group of the space and the total required capacity of all of the *exits* from the *corridor*. The *corridor* walls shall comply with Section 711.0.

**Exceptions:**

1. A fire-resistance rating is not required for *corridors* in an occupancy in Use Group E where each room that is occupied for instruction or assembly purposes has at least one-half of the required *means of egress* doors opening directly to the exterior of the building at ground level.
2. A fire-resistance rating is not required for *corridors* contained within a *dwelling unit* or a guest room in an occupancy in Use Group R.
3. A fire-resistance rating is not required for corridors in Use Group R-1 *bed and breakfast establishments*.

[A] (Add) **1011.4.2.1 Use Group R-1 bed and breakfast establishments:** Doors leading from guest rooms into corridors or hallways shall be equipped with self-closing devices.

[A] (Amd) **1014.6 Treads and risers:** The maximum riser height shall be 7 inches and the minimum riser height shall be 4 inches. The riser height shall be measured vertically between the leading edges of the adjacent treads. The minimum tread depth shall be 11 inches, measured horizontally between the vertical planes of the foremost projection of adjacent treads and at a right angle to the tread's leading edge.

**Exceptions:**

1. Winders in accordance with Section 1014.6.3.
2. Spiral *stairways* in accordance with Section 1014.6.4.
3. Circular *stairways* in accordance with Section 1014.6.5.
4. *Alternating tread stairways* in accordance with Section 1014.6.6.
5. *Stairways* serving as aisles in assembly seating areas where the *stairway* pitch or slope is set, for sightline reasons, by the slope of the adjacent seating area.
6. Any *stairway* replacing an existing *stairway* within a space where, because of existing construction, the pitch or slope cannot be reduced.

7. Existing *stairways*.
8. In occupancies in Use Group R-1 *bed and breakfast establishments*, in occupancies in Use Group R-3, within *dwelling units* in occupancies in Use Group R-2 and in occupancies in Use Group U which are accessory to an occupancy in Use Group R-3, the maximum riser height shall be 8 ¼ inches and the minimum tread depth shall be 9 inches. A nosing not less than ¾ inches but not more than 1 ¼ inches shall be provided on *stairways* with solid risers where the tread depth is less than 11 inches.
9. *Stairways* in penal facilities serving guard towers, observation stations and control rooms not more than 250 square feet in area shall be permitted to have risers not exceeding 8 inches in height and treads not less than 9 inches in depth.

[A] (Amd) **1014.6.3 Winders:** Winders shall not be permitted in required *means of egress stairways* except *stairways* serving a single *dwelling unit*. Such winders shall have a tread depth of not less than 10 inches at a point not more than 12 inches from the side where the tread is narrower and the minimum tread depth shall not be less than 6 inches. The continuous handrail required by Section 1014.7 shall be located on the side where the tread is narrower.

**Exception:** Winders in accordance with this section shall be permitted in existing buildings undergoing a *change of occupancy* from Use Group R-3 to Use Group R-1 *bed and breakfast establishments*.

[A] (Amd) **1014.7 Stairway guards and handrails:** *Stairways* shall have continuous handrails on both sides. Guards shall be provided where required by Section 1005.5. Intermediate handrails are required so that all portions of the required width of stairs are within 30 inches of a handrail. On monumental stairs, handrails shall be located along the most direct path of egress travel. Handrails shall be provided for *alternating tread stairways* in accordance with Section 1014.6.6.1. Guards shall be constructed in accordance with Section 1021.0. Handrails shall be constructed in accordance with Section 1022.0.

**Exceptions:**

1. *Stairways* with fewer than three risers are not required to have handrails where serving a single *dwelling unit* or where such *stairways* are not in an *exit access corridor* or aisle, *exit* or *exit discharge*.
2. Aisle stairs provided with a center handrail or serving seating on one side shall be equipped with a minimum of one handrail.
3. *Stairways* within a *dwelling unit* shall be equipped with a minimum of one handrail.
4. Spiral *stairways* shall be equipped with a minimum of one handrail.
5. *Stairways* within Use Group R-1 *bed and breakfast establishments* shall be equipped with a minimum of one handrail.

[A] (Amd) **1014.11 Interior stairway enclosures:** Interior *exit stairways* shall be enclosed with *fire separation assemblies* having a fire resistance rating of not less than 2 hours, except that such *stairways* in occupancies in Use Group A, B, E, F, H-4, I, M, R or S, which connect less than four stories, shall be enclosed with *fire separation assemblies* having a fire resistance rating of not less than 1 hour. An *exit stairway* enclosure shall not be used for any purpose other than *means of egress*. Openings in *exit* enclosures, other than unexposed exterior openings, shall be limited to those necessary for *exit access* to the enclosure from normally occupied spaces and for egress from the enclosure.

**Exceptions:**

1. *Stairways* are not required to be enclosed in occupancies in Use Group A-5 in which all portions of the *means of egress* are essentially open to the outside.

2. *Stairways* serving and contained within a single residential *dwelling unit* in occupancies in Use Group R-2 or R-3 are not required to be enclosed.
3. *Stairways* that are not a required *means of egress* element are not required to be enclosed where such *stairways* comply with Section 713.3.
4. *Stairways* in open parking structures which serve only the parking structure are not required to be enclosed.
5. *Stairways* in occupancies in Use Group I-3 as provided for in Section 410.3.7.
6. *Means of egress stairways* as required by Section 412.5.4 are not required to be enclosed.
7. *Stairways* connecting the first and second floors of Use Group R-1 *bed and breakfast establishments* shall not be required to be enclosed. *Stairways* connecting the second and third floors in such occupancies shall be enclosed with *fire separation assemblies* having a fire resistance rating of not less than 1 hour. *Stairways* connecting the basement and the first floor in such occupancies shall be enclosed with *fire partitions* having a fire resistance rating of not less than ½ hour with 20 minute fire resistance rated door assemblies. Fire resistance rated assemblies at *stairways* in Use Group R-1 *bed and breakfast establishments* shall not be required to be supported by fire resistance rated construction.

(Amd) **1016.3 Maximum slope:** The maximum slope of *means of egress* ramps in the direction of travel shall be one unit vertical in 12 units horizontal (1:12). The maximum slope across the direction of travel shall be one unit vertical in 48 units horizontal (1:48).

**Exception:** Aisles in areas of Use Group A shall comply with Section 1012.0.

[A] (Amd) **1017.3 Size of doors:** The minimum width of each door opening shall be sufficient for the occupant load thereof and shall provide a clear width of not less than 32 inches. The clear width of door openings at swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Where this section requires a minimum clear width of 32 inches and a door opening includes two door leaves without a mullion, one leaf shall provide a clear opening width of 32 inches. The maximum width of a swinging door leaf shall be 48 inches nominal. *Means of egress* doors in an occupancy in Use Group I-2 used for the movement of beds shall provide a clear width not less than 41 ½ inches. The height of doors shall not be less than 80 inches.

**Exceptions:**

1. A *means of egress* door serving a storage area of not more than 800 square feet and which is normally unoccupied shall have a maximum width of 10 feet.
2. The minimum and maximum width shall not apply to door openings that are not part of the required *means of egress* and are not required for accessibility in occupancies in Use Groups R-2 and R-3.
3. Door openings in resident sleeping rooms in occupancies in Use Group I-3 shall have a clear width of not less than 28 inches.
4. Door openings in closets less than 10 square feet in area shall not be limited by the minimum width.
5. Width of door leaves in revolving doors that comply with Section 1018.0 shall not be limited.
6. Door openings within a *dwelling unit* shall not be less than 78 inches in height.
7. Exterior door openings in *dwelling units*, other than the required *exit* door, shall not be less than 76 inches in height.

8. Interior egress doorways within a *dwelling unit* not required to be accessible shall have a minimum clear width of 29 ¾ inches. Door openings to storage closets and all other nonhabitable spaces within a *dwelling unit* not required to be accessible, shall not be limited by the minimum width.
9. Door openings within Type B *dwelling units* shall have a minimum clear width of 31 ¾ inches.
10. Doors within and accessing guest rooms in Use Group R-1 *bed and breakfast establishments* shall have a minimum clear width of 28 inches. Doors within and accessing bathrooms in Use Group R-1 *bed and breakfast establishments* shall have a minimum clear width of 24 inches.

(Add) **1017.3.1 Projections into clear width:** There shall be no projections into the required clear opening width lower than 34 inches above the floor or ground. Projections into the clear opening width between 34 inches and 80 inches above the floor or ground shall not exceed 4 inches.

(Amd) **1021.2 Height:** The guards shall be at least 42 inches in height measured vertically above the leading edge of the tread or adjacent walking surface.

**Exceptions:**

1. In other than occupancies in Use Group E, guards shall not be less than 36 inches in height above the leading edge of the tread along stairs which are not more than 20 feet in height or which reverse direction at an intermediate landing with 12 inches or less measured horizontally between successive flights.
2. Guards along open-sided floor areas, *mezzanines*, and landings serving a single *dwelling unit* in Use Group R-3 shall not be less than 36 inches in height.

(Amd) **1021.3 Opening limitations:** In occupancies in Use Groups A, B, E, H-4, I-1, I-2, M and R, and in *public garages* and open parking structures, open guards shall have balusters or be of solid material such that a sphere with a diameter of 4 inches cannot pass through any opening. Guards shall not have an ornamental pattern that would provide a ladder effect.

**Exceptions:**

1. The triangular openings formed by the riser, tread and bottom rail at the open side of a *stairway* shall be of a maximum size such that a sphere 6 inches in diameter cannot pass through the opening.
2. At elevated walking surfaces for access to and utilization of electrical, mechanical, or plumbing systems or equipment, guards shall have balusters or be of solid materials such that a sphere with a diameter of 21 inches cannot pass through any opening.

In occupancies in Use Groups I-3, F, H-1, H-2, H-3, S, (other than *public garages* and open parking structures), balusters, horizontal intermediate rails or other construction shall not permit a sphere with a diameter of 21 inches to pass through any opening.

(Amd) **1023.4 Power source:** All "Exit" signs shall be illuminated at all times that the building is occupied. To assure continued illumination for a duration of not less than 1 ½ hours in case of primary power loss, the "Exit" signs shall be connected to an emergency electrical system that complies with Section 2706.0.

**Exception:** Approved self-luminous signs which provide continuous illumination independent of external power sources are not required to comply with Section 2706.0.

[A] (Amd) **1024.1 Artificial lighting:** All *means of egress* in occupancies other than in Use Group R-3, the interior of *dwelling units* in occupancies in Use Group R-2 and Use Group U that are *accessory structures* to an occupancy in Use Group R-3, shall be equipped with artificial lighting facilities to provide the intensity of illumination herein prescribed continuously during the time that conditions of occupancy of the building require that the *exits* be available. All stairs within or serving a *dwelling unit* shall be provided with illumination and controls in accordance with Section 1207.0. Lighting shall also be provided to illuminate the *exit discharge*. *Means of egress* lighting in occupancies in Use Group R-2, other than lighting within a *dwelling unit*, shall be wired on a circuit independent of circuits within any *dwelling unit*. The disconnecting means and overcurrent protection device shall not be located within a *dwelling unit* or in such a way that access to such devices must be obtained by going through a *dwelling unit*.

**Exception:** Continuous illumination of the *means of egress* in Use Group R-1 *bed and breakfast establishments* shall not be required when illumination of the *means of egress* is initiated upon initiation of a fire alarm.

[A] (Amd) **1024.4 Power source:** *Means of egress* lighting in all buildings, rooms or spaces required to have more than one *exit* or *exit access* and in all Use Group R-1 *bed and breakfast establishments* shall be connected to an emergency electrical system that complies with Section 2706.0 to assure continued illumination for a duration of not less than 1 ½ hours in case of emergency or primary power loss.

## CHAPTER 11 - ACCESSIBILITY

(Amd) **1102.1 General:** The following words or terms shall, for the purposes of this chapter, and as used elsewhere in this code, have the meanings shown herein.

(Add) **Complex:** For application of accessibility requirements, this term means any group of buildings located on a single parcel of land or on contiguous parcels of land or any building or group of buildings which are subdivided into separate occupancies and planned, financed, constructed or promoted by common management for the purpose of sale or lease of the entire complex or any subdivision thereof, except any single-family detached dwelling.

(Add) **Story:** For application of accessibility requirements, this term means that part of a building between a floor and the floor or roof next above.

(Add) **Street Floor:** For application of accessibility requirements, this term means the floor nearest the level of exit discharge.

[A] (Amd) **1103.1 Where required:** All buildings and structures, including their associated sites and facilities, shall be accessible to persons with physical disabilities including, but not limited to, occupants, employees, students, spectators, participants and visitors.

### Exceptions:

1. Accessibility is not required in buildings and facilities, or portions thereof, to the extent permitted by Sections 1104.0 through 1110.0.
2. Detached *one-* and *two-family dwellings* and *accessory structures*, and their associated sites and facilities, are not required to be accessible except as provided by Section 1107.4.2.2.
3. Use Group U is exempt from all requirements of this section other than the following:
  - 3.1 In agricultural buildings, access is required to paved work areas and areas open to the general public.

3.2 Access is required to *private garages* or carports which contain accessible parking.

4. Temporary structures, sites and equipment directly associated with the construction process, such as construction site trailers, scaffolding, bridging or material hoists.
5. Pursuant to subsection (a) of section 29-274, C.G.S., Use Group H (High Hazard), Use Group S-1 (Moderate-Hazard Storage) to the extent that such facility is not designed to be utilized by the general public, and Use Group S-2 (low-hazard storage) to the extent that such facility is not a parking garage to be utilized by the general public, except that the provisions of section 29-269, C.G.S., shall apply to any employer occupying space in Use Group H, S-1 or S-2 who is in violation of section 46a-60, C.G.S.
6. Renovations, additions or alterations to existing buildings above the street floor being converted to Use Group B (Business) provided: (1) Each story above the street floor contains less than 3,000 square feet of total gross area per floor; and (2) the street floor is renovated to provide accessibility to the disabled pursuant to section 29-269, C.G.S.
7. Pursuant to subsection (c) of section 29-274, C.G.S., any complex or building which is not part of a complex designated as Use Group R-1 having fewer than 25 dwelling units or the second story of a two-story Use Group R-1 building where the street floor complies with the applicable provisions of this chapter, section 29-269, C.G.S., and subsection (a) of section 29-273, C.G.S.
8. Any building of any use group consisting of three stories or less not otherwise exempted by the provisions of section 29-269, C.G.S., shall be exempt if (1) each story above or below the street floor contains less than 3,000 square feet of total gross area; and (2) the street floor is designed, renovated or altered to comply with the provisions of this chapter, section 29-269, C.G.S., and the applicable provisions of section 29-273, C.G.S.
9. *Mezzanines* having less than 3,000 square feet of gross floor area, either singly or in the aggregate for multiple *mezzanines* on any floor, provided that the goods and services available on any *mezzanine* shall be available in accessible areas.

(Amd) **1104.1 Where required:** Accessible routes within the site shall be provided from public transportation stops, accessible parking and accessible passenger loading zones, and public streets or sidewalks to the accessible building entrance served. Where an accessible route must cross speed bumps or vehicle wheel stops, there shall be a minimum clear passage width not less than 32 inches.

[A] (Amd) **1104.2 Connected spaces:** At least one accessible route shall connect accessible spaces, elements, facilities and buildings that are on the same site. Where only one accessible route is provided, the accessible route shall not pass through kitchens, storage rooms, restrooms, closets or similar spaces.

**Exceptions:**

1. A single accessible route shall be permitted to pass through a kitchen or storage room in an accessible dwelling unit.
2. In buildings that are three stories or less, floors that are above or below the accessible street floor and that have a gross floor area of less than 3,000 square feet are not required to be served by an accessible route from an accessible level pursuant to subsection (d) of section 29-274, C.G.S.

(Amd) **1105.1 Required:** Where parking is provided, accessible parking spaces shall be provided in compliance with Table 1105.1, except as required by Sections 1105.2 and 1105.3.

(Amd) **Table 1105.1**

## ACCESSIBLE PARKING SPACES

Total parking spaces provided	Required minimum number of accessible spaces
1 to 25	1
26 to 50	2
51 to 75	3
76 to 100	4
101 to 150	5
151 to 200	6
201 to 300	7
301 to 400	8
401 to 500	9
501 to 1,000	2% of total
more than 1,000	20 plus one for each 100 over 1,000

(Add) **1105.1.1 Accessible parking spaces:** Pursuant to subsection (h) of section 14-253a, C.G.S., accessible parking spaces shall be 15 feet wide including 3 feet of cross hatch, or parallel to a sidewalk on a public highway.

(Add) **1105.1.2 Surface gradient:** Accessible parking spaces shall have a surface with a gradient not more than one unit vertical to 50 units horizontal (1:50).

(Amd) **1105.2 Use Groups R-2 and R-3:** Two percent, but not less than one, of parking spaces provided for occupancies in Use Group R-2 which are required to have Type A *dwelling units* shall be accessible. One accessible parking space shall be provided for each four Type A *dwelling units* in Use Group R-3 occupancies. Where parking is provided within or beneath a building, accessible parking spaces shall also be provided within or beneath the building.

(Add) **1105.4.1 Access clearance:** Pursuant to subsection (i) of section 14-253a, C.G.S., public parking garages, structures and terminals shall have a vertical clearance of 9 feet, 6 inches, along the vehicular route to and from at least two reserved and designated van parking spaces, and at one primary entrance and one exit.

(Add) **1106.3 Automatic entrances:** Pursuant to section 29-270a, C.G.S., at least one primary entrance to any *covered mall building*, anchor store or retail business (Use Group M) with more than 50,000 square feet of floor space shall be equipped with an automatically operating door or doors in sequence, installed in accordance with applicable provisions of this code. Where controls for automatic doors are provided they shall be in an accessible location outside the swing of the door, within 10 feet of the entrance and set at a maximum height of 30 inches above the walking surface.

**Exception:** Nothing in this section shall require the installation of automatically operating doors in a primary entrance which is open and unobstructed by any door during the hours the retail business is open to the public.

(Add) **1107.2.3.1 Surface gradient:** Wheelchair spaces shall have a surface with a gradient not more than one unit vertical to 50 units horizontal (1:50).



(Amd) **1107.4.1 Accessible guestrooms:** Pursuant to subsection (a) of section 29-273, C.G.S., any *hotel* occupancy in Use Group R-1 in a *complex* or in a building which is not part of a *complex*, containing in the aggregate 25 or more guestrooms shall provide at least one guestroom accessible to and usable by persons with disabilities for every 25 such rooms or fraction thereof. In *hotels* with more than 50 guestrooms, roll-in type showers shall be provided in one-half, but not less than one, of the required accessible guestrooms.

(Amd) **1107.4.1.1 Boarding houses and dormitories:** Pursuant to subsection (b) of section 29-273, C.G.S., any *boarding house* or *dormitory* in a *complex* or in a building which is not part of a *complex*, containing in the aggregate 25 or more beds shall provide accessibility to at least one bed for use by persons with disabilities for every 25 such beds or fraction thereof.

(Add) **1107.4.1.2 Accommodations:** Accessible guestrooms in Use Group R-1 shall be dispersed among the different types of accommodations provided.

(Amd) **1107.4.2 Accessible dwelling units:** In occupancies in Use Groups R-2 and R-3, accessible *dwelling units* shall be provided in accordance with Sections 1107.4.2.1, 1107.4.2.2, 1107.4.2.3 and 1107.4.2.4. In occupancies in Use Group R-2, all rooms and spaces available to the general public and all such spaces available for the use of the residents serving accessible *dwelling units* shall be accessible.

#### Exceptions:

1. Where a multistory *dwelling unit* is provided with *elevator* service to only one floor, the floor provided with *elevator* service shall comply with the requirements for a Type A *dwelling unit* and a toilet facility shall be provided on that floor.
2. The requirements for Type A *dwelling units* shall not apply to *dwelling units* that are both located above the first level containing *dwelling units* and that are not provided with *elevator* access thereto.
3. Recreational facilities in accordance with Section 1107.4.4.

(Add) **1107.4.2.1 Use Group R-2:** Pursuant to subsection (c) (2) of section 29-273, C.G.S., all dwelling units in Use Group R-2 constructed or substantially renovated or created by a change of use in any *complex*, or building which is not part of a *complex*, and which are located on the street floor and on any floor serviced by an elevator shall be Type A *dwelling units* in accordance with requirements set forth in ICC/ANSI A117.1, formerly entitled CABO/ANSI A117.1, as listed in Chapter 35.

(Add) **1107.4.2.2 Use Group R-3:** Pursuant to subsection (d) of section 29-273, C.G.S., any *complex* or building which is not part of a *complex*, designated, constructed or substantially renovated as Use Group R-3 *multiple single-family dwellings* which contains 10 or more *dwelling units* shall provide at least one Type A *dwelling unit* for every 10 units or substantial fraction thereof in accordance with requirements set forth in ICC/ANSI A117.1, formerly entitled CABO/ANSI A117.1, as listed in Chapter 35.

(Add) **1107.4.2.3 Distribution:** Where *dwelling units* differ in the number of bedrooms provided, Type A *dwelling units* of each type shall conform generally to the percentages of the unit types as a whole and shall be distributed throughout any building or complex. This shall not be construed so as to require a greater number of Type A *dwelling units* than as computed above.

(Add) **1107.4.2.4 State assisted housing:** Pursuant to section 29-271, C.G.S., any state-assisted rental housing or rental housing project constructed or substantially rehabilitated which contains 10 or more housing units shall have at least 10 percent of the units and all common use areas and facilities designed to promote safe and accessible means of entrance and egress and ease of access and use of the facilities for the

physically disabled unless a waiver of such requirement is obtained from the Commissioner of Economic and Community Development.

(Amd) **1108.2 Toilet and bathing facilities:** Toilet rooms and bathing facilities shall be accessible. At least one of each type fixture or element in each accessible toilet room and bathing facility shall be accessible. Toilet and bathing facilities in Type A and Type B *dwelling units* shall meet the requirements of ICC/ANSI A117.1, formerly entitled CABO/ANSI A117.1, as listed in Chapter 35.

**Exceptions:**

1. A nonpublic toilet room or bathing facility intended for use by a single occupant shall be permitted to be adaptable.
2. This section is not applicable to *dwelling units*, guestrooms and patient toilet and bathing facilities which are not required to be accessible by Section 1107.0

(Amd) **1108.2.1 Water closet compartment:** Where water closet compartments are provided in a toilet room or bathing facility, a wheelchair-accessible compartment shall be provided. Where a combined total of six or more water closet compartments and urinals are provided in a toilet room or bathing facility, at least one ambulatory-accessible compartment shall be provided in addition to the wheelchair-accessible compartment. Wheelchair-accessible and ambulatory-accessible compartments shall comply with the plumbing code and ICC/ANSI A117.1, formerly entitled CABO/ANSI A117.1, as listed in Chapter 35.

(Add) **1108.2.2 Single Occupancy Toilet:** Required accessible toilet rooms designed for single occupancy in other than Use Group R shall meet the requirements of ICC/ANSI A117.1, formerly entitled CABO/ANSI A117.1, as listed in Chapter 35. Each such room shall contain both toilet and lavatory, shall have a lever handle privacy lockset and shall have an emergency call system which actuates a visible and audible alarm in a normally occupied area. An alarm pull switch shall be provided within 3 feet of the water closet with a pull cord extending to within 12 inches of the floor. Emergency instructions shall be provided at the occupied location.

(Amd) **1108.3 Kitchens:** Kitchens in Type A and Type B *dwelling units* shall comply with ICC/ANSI A117.1, formerly entitled CABO/ANSI A117.1, as listed in Chapter 35.

(Amd) **1108.5 Lifts and limited use, limited access elevators:** Vertical wheelchair or incline lifts, inclined stairway chairlifts and limited use, limited access elevators shall not be a part of a required accessible route in new construction, alteration or repair. Pursuant to section 29-200, C.G.S., the following exceptions are allowed:

**Exceptions:**

1. In buildings principally used for meeting, gathering or assembling by any civic, religious, fraternal or charitable organization.
2. In residential buildings designed to be occupied by one or two families.
3. In other buildings and structures only if the Executive Director of the Office of Protection and Advocacy for Persons with Disabilities and the State Building Inspector jointly approve such installation.

Lifts and limited use, limited access elevators shall be installed in accordance with ASME A17.1 listed in Chapter 35.

(Add) **1108.11 Study carrels:** Where fixed or built-in study carrels are provided, at least one, but not less than five percent, of the locations shall be accessible.

(Add) **1108.12 Laboratory stations:** Where fixed or built-in laboratory stations are provided, at least one, but not less than five percent, of the locations shall be accessible.

(Add) **1108.13 Telephones:** Where public telephones are provided, at least one, but not less than 25 percent shall be accessible. Where three or more public telephones are provided in any one location, or where any public telephone is provided in a hospital, an accessible shelf and an accessible electrical outlet shall be provided for use of a portable text telephone device.

(Add) **1108.14 Automated teller machines:** Where automated teller machines are provided for pedestrian use at any site, at least one location and one automated teller machine shall be accessible.

[A] (Amd) **1109.2 Signs:** Required accessible elements shall be identified by the International Symbol of Accessibility at the following locations:

1. Accessible parking spaces as required by Section 1105.1. Pursuant to subsection (h) of section 14-253a, C.G.S., such spaces shall be designated by above-grade signs with white lettering against a blue background and shall bear the words "HANDICAPPED PARKING PERMIT REQUIRED" and "VIOLATORS WILL BE FINED" in addition to the International Symbol of Accessibility. When such a sign is replaced, repaired or erected, it shall indicate the minimum fine for a violation of subsection (f) of section 14-253a, C.G.S. Such indicator may be in the form of a notice affixed to such sign.
2. Accessible passenger loading zones.
3. Accessible areas of refuge required by Section 1007.5.4.
4. Accessible portable toilet and bathing units.
5. Accessible means of egress stairways.

(Add) **1109.2.2 Interior signage:** Interior signs which designate permanent rooms and spaces shall be raised text characters and Braille, designed and located in accordance with ICC/ANSI A117.1, formerly entitled CABO/ANSI A117.1, as listed in Chapter 35. Mounting location for signage shall be such that any person approaching the signage will not encounter protruding objects, or stand within the swing of any door.

(Amd) **1110.2.2 Scoping for alterations:** The following provisions shall apply for *alterations* to existing buildings and facilities:

1. Where it is technically infeasible to alter existing toilet rooms or bathing facilities to be accessible, at least one accessible unisex toilet room or bathing facility shall be provided and shall be located on the same floor and in the same area as the existing toilet rooms or bathing facilities. Each accessible unisex toilet room shall contain one accessible water closet and lavatory, and each accessible unisex bathing facility shall contain one accessible fixture of each kind provided in the existing bathing facilities. The door to each accessible unisex toilet room or bathing facility shall be capable of being locked from within the room. Each accessible unisex toilet room or bathing facility shall have an emergency call system which activates a visible and audible alarm in a normally occupied area. An alarm pull switch shall be provided within 3 feet of each water closet, shower or bathtub, with a pull cord extending to within 12 inches of the floor. Emergency instructions shall be provided at the occupied location.
2. Where existing toilet or bathing facilities are being altered and are not made accessible, directional signage shall be provided indicating the location of the nearest accessible toilet or bathing facility within the facility.
3. Where it is technically infeasible to disperse accessible seating throughout an altered assembly area, accessible seating areas may be clustered. Each accessible wheelchair

space shall have provisions for companion seating and shall be located on an accessible route that also serves as an accessible means of egress.

4. Where it is technically infeasible to alter all performing areas to be on an accessible route, at least one of each type of performing area shall be made accessible.
5. Pursuant to section 29-200, C.G.S., inclined stairway chairlifts, vertical wheelchair or incline lifts and limited use, limited access elevators, when utilized in accordance with the provisions of Section 1108.5, are permitted to be utilized as part of an accessible route in alterations.
6. Where it is technically infeasible to alter existing dressing rooms to be accessible in accordance with Section 1108.9.1, not less than one accessible dressing room shall be provided on the same level as the inaccessible dressing rooms. Where separate dressing rooms are provided for each sex, not less than one accessible dressing room for each sex shall be provided.
7. Where guestrooms in occupancies in Use Group R-1 are being altered, at least one guestroom for each 25 altered guestrooms shall be accessible, and at least one additional guestroom for each 25 altered guestrooms shall comply with Sections 918.8 and 1007.0. Altered accessible guestrooms shall be dispersed among different types of accommodations. The building is not required to exceed the requirements of Sections 918.8.1, 918.8.2 and 1107.4.1.
8. Accessible means of egress in accordance with Section 1007.0 are not required as a result of *alterations* to existing buildings and facilities.

**Exceptions to #8:**

- i. Where guestrooms are being altered in occupancies in Use Group R-1, as provided for in Item 7 of Section 1110.2.2.
- ii. Where there is a *change of occupancy*, as provided for in Section 1110.3.

(Amd) **1110.3 Change of occupancy:** Provisions for new construction shall apply to existing buildings that undergo a *change of occupancy*, unless technically infeasible or in accordance with Section 1103.1, Exception 6.

(Amd) **1110.4 Historic buildings:** The provisions of Chapter 11 shall apply to buildings and facilities designated as historic structures that undergo *alterations* or a *change of occupancy*, unless technically infeasible or unless a modification is granted pursuant to subsection (b) of section 29-259, C.G.S.

## CHAPTER 12 - INTERIOR ENVIRONMENT

(Amd) **1202.1 General:** The following additional words and terms shall, for the purposes of this chapter and as used elsewhere in this code, have the meanings shown herein.

(Add) **Attic, habitable:** A habitable attic is that portion of an attic which has a *stairway* as a means of access and egress and in which the area of a plane established at a height of 7-1/3 feet above the attic floor is not more than one-third of the area of the next floor below. A habitable attic shall not constitute a story above grade.

## CHAPTER 15 - ROOFS AND ROOF STRUCTURES

(Amd) **1507.4.3 Asphalt shingles:** Asphalt shingles shall conform to ASTM D225 or D3462 listed in Chapter 35. Asphalt shingles shall not be installed on roof slopes below two units vertical in 12 units horizontal (2:12). Double-layer underlayment shall be required on roof slopes below four units vertical in 12 units horizontal (4:12).

Single-layer underlayment is required on all other roof slopes. Asphalt shingles shall be secured to the roof with not less than four fasteners per strip shingle, or not less than two fasteners per individual shingle. Asphalt strip shingles shall have a minimum of six fasteners per strip shingle where the basic wind speed is 80 miles per hour or greater, as determined in accordance with Appendix A. Shingle headlap shall not be less than 2 inches.

## CHAPTER 16 - STRUCTURAL LOADS

[A] (Add) **1606.1.2 Use Group R-1 *bed and breakfast establishments*:** *Live loads* shall comply with the requirements of Table 1606 for one- and two-family dwellings.

(Amd) **1608.3 Ground snow loads:** Ground snow *loads* to be utilized in determining the design snow *loads* for roofs shall be as listed in Appendix A.

(Del) **Figures 1608.3(1); Figure 1608.3(2); and Figure 1608.3(3):** Delete figures and substitute with: Ground snow *loads* to be utilized in determining the design snow *loads* for roofs shall be as listed in Appendix A.

(Amd) **1608.4 Flat roof and low-slope snow loads:** The snow load on unobstructed flat roofs and roofs having a slope of 30 degrees (0.52 rad) or less ( $P_f$ ) shall be calculated in pounds per square foot using the following formula:

$$P_f = C_e I P_g$$

where:

$C_e$  = Snow exposure factor determined from Table 1608.4.

$I$  = Snow load importance factor determined from Note 1 to Appendix A

$P_g$  = Ground snow load expressed in pounds per square foot as listed in Appendix A.

The calculated value of  $P_f$  shall not be less than 30 pounds per square foot. The 30 pounds per square foot minimum value of  $P_f$  shall also be applicable to sloped roof snow loads calculated in accordance with Section 1608.5. The calculated value of  $P_f$  without the 30 pounds per square foot minimum requirement shall be used to determine unbalanced snow loads, snow drifting loads and snow sliding loads in accordance with Sections 1608.6, 1608.7 and 1608.8.

**Exception:** The flat roof snow load on continuously heated greenhouses shall be calculated using the following formula:

$$P_f = C_{tg} C_e I P_g$$

where the thermal factor for greenhouses ( $C_{tg}$ ) = 0.83

(Amd) **1609.1 General:** All buildings, other exposed structures, components, cladding and roof coverings shall be designed to resist the pressures caused by wind in any direction as provided for herein, or shall comply with Section 6 of ASCE 7 listed in Chapter 35 using the Basic Wind Speeds for the 169 municipalities as listed in Appendix A. Where the provisions of ASCE 7 listed in Chapter 35 are utilized, the provisions of Section 1609.1.4 shall apply. The basic wind speed shall be determined in accordance with Section 1609.3. The exposure category shall be determined in accordance with Section 1609.4. The importance factor and minimum design *wind load* shall be determined in accordance with Sections 1609.5 and 1609.6. *Wind loads* on the building's main windforce-resisting system shall be determined in accordance with Section 1609.7. Building

component and cladding *wind loads* shall be determined in accordance with Section 1609.8. *Wind loads* on structures other than buildings shall be determined in accordance with Section 1609.9. Roof overhangs shall be designed for *wind loads* in accordance with Section 1609.10. Radio and television towers shall be designed for *wind loads* in accordance with Section 3108.4.

(Amd) **1609.3 Basic Wind Speed:** The basic wind speed, in miles per hour, for the design of a structure shall be based on the location of the structure as listed in Appendix A. Reductions in the basic wind speed due to direct shielding afforded by adjacent buildings, structures or terrain features shall not be permitted.

(Del) **Figure 1609.3:** Delete figure and substitute with: The basic wind speed, in miles per hour, for the design of a structure shall be based on the location of the structure as listed in Appendix A.

(Del) **Table 1609.3:** Delete without substitution.

(Amd) **1609.5 Importance factor:** Buildings and other structures shall be assigned a *wind load* importance factor (*I*) in accordance with Appendix A.

(Del) **Table 1609.5:** Delete table and substitute with: Wind load importance factors shall be as listed in Appendix A. Snow load importance factors shall be in accordance with Note 1 to Appendix A.

(Amd) **Table 1609.7(6)**

### INTERNAL PRESSURE COEFFICIENTS

#### FOR BUILDINGS <sup>a,b,c,d,e</sup> ( $G_{cpi}$ )

Condition		$G_{cpi}$
Condition I	All conditions except as noted under Condition II	+ 0.25 - 0.25
Condition II	Buildings which have both of the following wall opening characteristics: 1. The area of openings in the windward wall, and windward roof if under positive pressure, exceeds the sum of the area of openings in the remaining walls and roof surfaces by 5 percent or more; and 2. The openings in any one of the remaining walls or roof do not exceed 20 percent of the wall or roof area.	+ 0.75 - 0.25

**Note a.** Values are to be utilized with the provisions of Sections 1609.7 and 1609.8.

**Note b.** Plus and minus signs signify pressures acting toward and away from the surfaces, respectively.

**Note c.** To ascertain the critical load requirements for the appropriate condition, two cases

shall be considered: a positive value of  $G_{cpi}$  applied simultaneously to all surfaces and a negative value of  $G_{cpi}$  applied to all surfaces.

**Note d.** Percentages of openings in a wall or roof surface are determined by the ratio of area of openings to gross area for the wall or roof surface considered.

**Note e.** Openings include permanent openings and those openings which are not designed to resist wind-borne debris or are not specifically protected from wind-borne debris impact where the ASCE 7-95 basic wind speed is 110 miles per hour or greater, as listed in Appendix A.

[A] (Amd) **1610.1 General:** Every building and structure shall be designed and constructed to resist the ultimate strength loads and story drift effects of earthquake motions determined in accordance with this section, or shall comply with Section 9 of ASCE 7 listed in Chapter 35. *Additions and changes of occupancy* to existing buildings and structures shall be designed and constructed to resist the effects of earthquake motions determined in accordance with this section. Special structures, including but not limited to vehicular bridges, transmission towers, industrial towers and equipment, piers and wharves, and hydraulic structures, shall be designed for *earthquake loads* utilizing an approved, substantiated analysis.

**Exceptions:**

1. Detached *one- and two-family dwellings* are exempt from the requirements of this section.
2. Agricultural storage buildings that are intended only for incidental human occupancy shall be exempt from the requirements of this section.
3. Buildings or structures located where the seismic coefficient representing the effective peak velocity-related acceleration ( $A_v$ ) is less than 0.05, shall only be required to comply with Section 1610.3.6.1.
4. The seismic force-resisting system of wood frame buildings that conform to the provisions of Section 2305.8, and are constructed in accordance with Section 2305.0 and Section 1610.3.6.1, shall not be required to be analyzed as specified in Sections 1610.3 through 1610.5.
5. Use Group R-1 *bed and breakfast establishments* shall be exempt from the requirements of this section.

(Amd) **1610.1.3 Seismic ground acceleration:** The effective peak velocity-related acceleration ( $A_v$ ) and the effective peak acceleration ( $A_a$ ) shall be determined from Appendix A.

(Del) **Figure 1610.1.3(1) and Figure 1610.1.3(2):** Delete without substitution.

(Amd) **1610.4.1 Seismic base shear:** The seismic base shear ( $V$ ) in a given direction shall be determined in accordance with the following formula:

$$V = C_s W$$

where:

$C_s$  = The seismic design coefficient determined in accordance with Section 1610.4.1.1.

$W$  = The total *dead load* and applicable portions of other *loads* listed below:

1. For occupancies in Use Group S, a minimum of 25 percent of the floor *live load* shall be applicable.

**Exception:** Floor *live load* in *public garages* and open parking structures is not applicable.

2. Where an allowance for *partition load* is included in the *floor load* design, the actual partition weight or a minimum weight of 10 pounds per square foot of floor area, whichever is greater, shall be applicable.

3. Total operating weight of permanent equipment.
4. Snow load reductions of 80 percent are permitted.

## CHAPTER 17 - STRUCTURAL TESTS AND INSPECTIONS

[A] (Amd) **1702.1 General:** The following words and terms shall, for the purposes of this chapter and as used elsewhere in this code, have the meanings shown herein.

[A] (Amd) **Approved agency:** An established and recognized agency regularly engaged in conducting tests or furnishing inspection services, when such agency has been approved (see Section 1704.0). Officials certified in accordance with the provisions of section 29-298, C.G.S., and employed by the jurisdiction in which the building or structure is being constructed, shall be considered an approved agency for the purposes of Section 113.2.1 of the State Building Code.

(Amd) **1705.1 General:** The permit applicant shall provide *special inspections* where application is made for construction as described in this section. The special inspectors and testing laboratory shall be engaged by the owner or owner's agent and shall be qualified and approved for the inspection of the work described herein. The special inspectors and testing laboratory shall not be engaged by the contractor whose work is to be inspected or tested.

### Exceptions:

1. *Special inspections* are not required for work of a minor nature or where warranted by conditions in the jurisdiction.
2. *Special inspections* are not required for building components unless the design involves the practice of professional engineering or architecture as defined by applicable state statutes and regulations governing the professional registration and certification of engineers or architects.
3. *Special inspections* are not required for occupancies in Use Group R-3 and occupancies in Use Group U that are accessory to a residential occupancy including, but not limited to, those listed in Table 312.1.

(Amd) **1705.4.3 Formwork:** Forms for concrete, if used, shall be inspected for conformance with the required formwork geometry. Any additional inspections of concrete formwork required by the approved construction documents shall also be conducted.

## CHAPTER 18 - FOUNDATIONS AND RETAINING WALLS

**(Amd) Table 1804.3  
Presumptive Loadbearing Values of  
Foundation Materials**

<i>Class of Material</i>	<i>Loadbearing Pressure (pounds per square foot)</i>
1. Massive crystalline bedrock including granite, diorite, gneiss, trap rock, hard limestone, and dolomite .....	200,000



2. Foliated rock including bedded limestone, schist and slate in sound condition .....	80,000
3. Sedimentary rock including hard shales, sandstones and thoroughly-cemented conglomerates .....	50,000
4. Soft or broken bedrock (excluding shale) and soft limestone .....	20,000
5. Compacted, partially-cemented gravels, sand and hardpan overlying rock .....	20,000
6. Gravel and sand-gravel mixtures .....	12,000
7. Loose gravel, hard dry clay, compact coarse sand, and soft shales .....	8,000
8. Loose, coarse sand and sand-gravel mixtures and compact fine sand (confined) .....	6,000
9. Loose medium sand (confined), stiff clay .....	4,000
10. Soft broken shale, soft clay .....	3,000

[A] (Amd) **1806.1 Frost protection:** Except where erected upon solid rock or otherwise protected from frost, foundation walls, piers and other permanent supports of all buildings and structures larger than 100 square feet in area or 10 feet in height shall extend to the frost line of the locality, and spread footings of adequate size shall be provided where necessary to distribute properly the *load* within the allowable loadbearing value of the soil. Alternatively, such structures shall be supported on piles where solid earth or rock is not available. Footings shall not bear on frozen soils unless such frozen condition is of a permanent nature.

**Exception:** Use Group U structures of wood frame, steel or plastic construction, 200 square feet or less in area are permitted to be installed above grade on a base of naturally durable wood, preservative treated wood, concrete, masonry or other approved material. Such structures are not required to be designed to resist or protect against frost action, but shall be designed to resist or protect against movement from wind.

(Add) **1806.1.1 Frost protection minimum depth:** Except as provided herein or as approved by submission of adequate structural design analysis, the minimum required depth of the bottom of footings shall be 42 inches below grade.

## CHAPTER 22 - STEEL

(Amd) **2207.2 Structural steel cable systems:** The design, fabrication and erection of steel cables used as load bearing members in buildings and structures shall be in accordance with ASCE 19, Structural Applications of Steel Cables for Buildings, listed in Chapter 35, except as modified by the provisions of Section 2207.2.1.

(Amd) **2207.2.1 Steel cable seismic requirements:** The ASCE 19, Structural Applications of Steel Cables for Buildings standard listed in Chapter 35 shall be modified as indicated in this section. The references to sections are those of the ASCE 19 standard listed in Chapter 35.

1. Load combination “d” of Section 3.2.1 shall be modified by substituting 1.5  $T_4$  instead of 2.0  $T_4$  where  $T_4$  is the net tension in the cable due to dead load, prestress, live load and seismic load.
2. A load factor of 1.1 shall be applied to the prestress forces to be added to the load combination of Section 3.1 of the steel cable specification.
3. The design strength ( $S_d$ ) determined in Section 3.2 shall be reduced by multiplying it by the following seismic reduction factors when evaluating load combinations which include seismic forces:  
Members, connections and base plates that develop the strength of the members of structural systems.....0.90  
Connections that do not develop the strength of the member or structural system, including connections to base plates and anchor bolts.....0.67

## CHAPTER 23 - WOOD

(Amd) **2303.1.1 Identification:** All lumber utilized for *load* supporting purposes, including end-jointed or edged-glue lumber, shall have the grade identified on the label (grade mark) of an approved lumber grading or an *approved inspection agency*. Grading practices and identification shall be in accordance with rules published by an *approved agency*. In lieu of such a label on the material, a certificate of inspection as to species and grade which is issued by an approved lumber grading or an *approved inspection agency* shall be accepted for precut, remanufactured or rough-sawn lumber, and for sizes larger than 3 inches nominal in thickness. Fireretardent-treated wood shall be *labeled* in accordance with Section 2310.2.2.

**Exception:** Pursuant to section 29-256b, C.G.S., the use of ungraded lumber shall be allowed in Utility and Miscellaneous structures in accordance with Section 312.0.

## CHAPTER 28 - MECHANICAL SYSTEMS

(Add) **2801.2.1 Space heaters:** Space heaters shall comply with the requirements of sections 29-318, 29-318a, 29-318b and 29-318c, C.G.S., and the regulations adopted by the Commissioner of Consumer Protection under authority of section 29-318c, C.G.S.

[A] (Add) **2801.2.2 Oil burners:** Oil burners shall comply with the provisions of sections 29-316 and 29-317, C.G.S.

(Add) **2801.2.3 Gas equipment and piping:** The installation and operation of gas equipment and piping shall comply with sections 29-329, 29-330 and 29-331, C.G.S., and the regulations adopted by the Commissioner of Public Safety under authority of section 29-329, C.G.S., and section 29-331, C.G.S.

## CHAPTER 29 - PLUMBING SYSTEMS

(Amd) **2905.3 Private water supply:** Installations shall be approved in accordance with this code and the regulations enforced by the local health director under authority of sections 19a-36 and 19a-37, C.G.S.

(Amd) **2906.1 General:** Installations shall be approved in accordance with this code and the regulations enforced by the Local Health Director under authority of sections 19a-36 and 19a-37, C.G.S.

## CHAPTER 30 - ELEVATORS AND CONVEYING SYSTEMS

(Add) **3001.1.1 Equipment regulated by statute:** All elevators, dumbwaiters, material lifts, vertical and inclined chair lifts, limited use, limited (application) access elevators and escalators, including existing systems, shall comply with regulations adopted pursuant to Chapter 538, C.G.S. Where the provisions of this chapter conflict with other statutory or regulatory provisions, those requirements shall prevail.

(Amd) **SECTION 3002.0 DEFINITIONS** Add the following definition:

(Add) **Code Official:** For the purposes of Chapter 30, the code official shall be the municipal building official or the appropriate representative from the Division of Fire, Emergency and Building Services of the Department of Public Safety, State of Connecticut, as determined by statute and regulation.

(Amd) **3007.4 Location of vents:** Vents shall be located in the side of the hoistway enclosure directly below the floor or floors at the top of the hoistway and shall open either directly to the outer air or through noncombustible ducts to the outer air. Holes in the machine room floors for the passage of ropes, cables or other moving elevator equipment shall be limited so as not to provide greater than 2 inches clearance on all sides.

**Exception:** Where elevator machine rooms are not located at the top of the hoistway enclosure, vents shall be permitted to be located at the top of such hoistway enclosure. Vents shall open either directly to the outer air or through noncombustible ducts to the outer air.

(Del) **SECTION 3013.0 EXISTING ELEVATORS AND ESCALATORS:** Delete entire section without substitution.

## CHAPTER 31 - SPECIAL CONSTRUCTION

(Amd) **3104.1.1 Permit required:** All temporary structures that cover an *area* in excess of 120 square feet, including all connecting *areas* or spaces with a common *means of egress* or entrance which are used or intended to be used for the gathering together of 10 or more persons, shall not be erected, operated or maintained for any purpose without obtaining a permit from the code official. Tents used exclusively for recreational camping purposes shall be exempt from the above requirements. Special permits required by this code shall be secured from the code official.

### Exceptions:

1. Tents less than 350 square feet total area.
2. Tents 900 square feet and smaller in total area when occupied by fewer than 50 persons, which have no heating appliances, no installed electrical service, and are erected for fewer than 72 hours.

## CHAPTER 34 - EXISTING STRUCTURES

(Del) **3402.8 Lead-based paint:** Delete without substitution.

(Amd) **3406.1 Compliance:** Pursuant to section 29-259, C.G.S., exemptions may be granted to the provisions of this code for historic structures as defined by section 10-321a, C.G.S., which have been classified as such in the State Register of Historic Places as long as the provisions of subsection (b) of section 29-259, C.G.S., are

adhered to and provided that such exemptions shall not affect the safe design, use or construction of such property.

(Add) **3406.2 Definition:** The following word or term, for the purposes of this section and as used elsewhere in this code shall have the meaning shown herein.

(Add) **Historic building:** Any individual building or structure, or any building or structure located within an historic district and designated as historically contributing to the district, as so designated by the State Historical Preservation Officer.

(Amd) **3408.2 Applicability:** Structures existing prior to the effective date of this code, in which there is work involving *additions, alterations or changes of occupancy*, shall be made to conform to the requirements of this section or the provisions of Sections 3403.0 through 3407.0. The provisions in Sections 3408.2.1 through 3408.2.5 shall apply to existing occupancies that will continue to be, or are proposed to be, in Use Groups A, B, E, F, M, R, and S. These provisions shall not apply to buildings with occupancies in Use Group H or I.

## CHAPTER 35 - REFERENCED STANDARDS

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(Amd) <b>AFPA</b>	American Forest and Paper Association American Wood Council 1111 19 <sup>th</sup> Street, NW Suite 800 Washington, DC 20036
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Standard reference number	Title	Referenced in code section number
AF&PA NDS - 1997	National Design Specification for Wood Construction	
-with the 1997 supplement; Design Values for Wood Construction.....		1808.1
	2303.1, 2304.1, 2305.14.1, 2305.15, 2306.4,	
	2306.4.5.1, 2306.4.5.2, 2306.4.6, 2306.4.6.1.1	
	2306.4.6.2.1, 2312.1, 2312.4, 2313.3.1, 2313.3.2	
TR7-87	Basic Requirements for Permanent Wood Foundation System.....	1808.3
		1813.3, 2311.3.3

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(Amd) <b>AISI</b>	American Iron and Steel Institute Suite 1300 1101 17th Street, N.W. Washington, DC 20036-4700
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Standard reference number	Title	Referenced in code section number
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CFSD - ASD - 86	Specification for Design of Cold-Formed Steel Structural Members -with 1989 Addendum.....	1604.5.2 2206.1, 2206.3, 2206.3.1
CFSD - LRFD - 91	Load and Resistance Factor Design Specification for Cold-Formed Steel Structural Members.....	2206.1 2206.3, 2206.3.1

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(Amd) **ASCE** American Society of Civil Engineers  
345 East 47th Street  
New York, NY 10017

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Standard reference number	Title	Referenced in code section number
ASCE 3 - 84	Specifications for the Design and Construction of Composite Slabs.....	1604.5.2 1901.1, 2206.1.1
ASCE 5/ACI 530/ TMS 402 - 95	Building Code Requirements for Masonry Structures.....	707.3 1405.5, 1604.5.3, Table 1610.3.3, 1705.5, Table 1705.5 1812.3, Table 1812.3.2(1), 1815.4, 2101.1.1, 2101.1.2, 2101.2.2, 2105.3.1
ASCE 6/ACI 530.1 TMS 602 - 95	Specifications for Masonry Structures.....	1405.6 Table 1705.5, 2111.1.1
ASCE 7 - 95	Minimum Design Loads for Buildings and other Structures.....	1604.1 1604.2, 1606.4, 1606.6, 1606.8, 1607.3, 1607.5, 1608.1, 1609.1, 1609.1.1, Table 1609.7(6), 1610.1, 1610.3.7, 1612.2, 1612.3, 1612.4, 1613.1
ASCE 8-SSD - LRFD/ASD - 90	Specification for Design of Cold-Formed Stainless Steel Structural Members.....	1604.5.2 2206.1, 2206.3, 2206.3.1
ASCE 19 - 95	Structural Applications of Steel Cables for Buildings.....	2207.2, 2207.2.1

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[A] (Amd) **ASME** American Society of Mechanical Engineers  
3 Park Avenue  
New York, NY 10016

Standard reference number	Title	Referenced in code section number
A13.1 - 81(85)	Scheme for the Identification of Piping Systems.....	416.15.3
A17.1 - 96	Safety Code for Elevators and Escalators ---- with the 1997 and 1998 addenda.....	1108.5 1110.2.2, 1610.6.5, 3001.2, 3001.3, 3004.4.1, 3004.4.2, 3004.5.1, 3005.3.2, 3006.2, 3012.3
A17.3 - 96	Safety Code for Existing Elevators and Escalators.....	3013.1
A90.1 - 92	Safety Standard for Belt Manlifts -----with A90.1a-95 Addendum.....	3001.2 3004.5.3
B20.1 - 94	Safety Standard for Conveyors and Related Equipment - with B20.1a-94 Addendum.....	3001.2 3004.5.5, 3010.3
B31.3-93	Chemical Plant and Petroleum Refinery Piping --with B31.3a-93, B31.3b-94 & B31.3c-95 Addenda.....	416.15

(Amd) **CABO** Council of American Building Officials  
Suite 201  
5203 Leesburg Pike  
Falls Church, VA 22041

PLEASE NOTE THAT THE TITLE OF THE CABO/ANSI A 117.1 STANDARD HAS BEEN CHANGED TO  
ICC/ANSI A117.1

Standard reference number	Title	Referenced in code section number
ICC/ANSI A117.1 - 1998	Accessible and Usable Buildings and Facilities.....	1007.5.4 1014.11.4, 1016.5.1, 1101.1, 1102.1, 1103.2, 1105.1, 1106.1, 1106.2, 1107.2.2, 1107.3.2, 1107.4.1.1, 1107.4.2, 1108.2.1, 1108.7, 3006.3

## (Amd) **CODES**

Standard reference number	Title	Referenced in code section number
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	State Fire Safety Code.....	102.2
		201.3, 307.2, 307.8, Table 307.8(1), Table 307.8(2), 408.6, 412.3.7, 415.1, 416.14, 416.14.2, 417.1, 417.2.1, Table 417.2.1.1, 417.3, 417.5, 417.5.1, 417.5.2, 417.5.3, 417.5.5, 417.6, 417.6.1, 417.6.3, 418.1, 418.2, 418.2.1, 418.3, 418.3.1, 418.3.2, 418.3.2.3, 418.3.3, 418.4, 418.5, 419.2.3, 705.2.1, 707.1.1, 901.2, 901.4, 901.7, 904.5, 915.1, 921.2, 3103.1, 3305.1, 3305.2, 3401.2, 3401.4, 3408.3.2, 3408.6.8.1, 3408.6.14, 3408.6.14.1
IMC - 96	ICC International Mechanical Code.....	201.3
		307.8, 408.4.1, 408.5, 411.3, 416.9, 417.1, 417.3, 418.3.1.4, 418.3.2, 418.3.3, 418.3.4, 419.2, 419.2.1, 602.4.2, 602.4.3, 718.2, 723.2, 910.6, 914.1, 1005.7, 1203.1, 1208.3, 1209.1, 1210.3, 2305.12, 2702.2, 2801.2, 2802.1, 2802.3, 2804.1, 2805.2.3, 2805.2.4, 2808.3, 2809.1, 3007.5, 3107.6, 3309.2, 3401.3, 3408.6.8, 3408.6.8.1
IPC - 97	ICC International Plumbing Code.....	201.3
		408.4, 418.3.4, 602.4.3, 907.6.2, 11102.1, 1108.2, 1108.2.1, 1108.3, 1212.7, 1510.7.2, 1813.5.3, 2901.1, 2902.3, 2904.3, 2905.4.2, 2908.1, 2908.2, 3107.9, 3401.3
OTFDC - 95	CABO One & Two Family Dwelling Code.....	310.6
MEC - 95	CABO Model Energy Code.....	1301.1

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(Amd) **NFPA** National Fire Protection Association  
 Batterymarch Park  
 Quincy, MA 02269

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Standard reference number	Title	Referenced in code section number
10 - 98	Portable Fire Extinguishers.....	921.2
11 - 98	Low Expansion Foam.....	911.1

		911.5
11A - 94	Medium- and High Expansion Foam Systems.....	911.1
		911.5
12 - 98	Carbon Dioxide Extinguishing Systems.....	909.1
		909.5
12A - 97	Halon 1301 Fire Extinguishing Systems.....	912.1
		912.5
(Note: NFPA 12B - 90 has been withdrawn and not replaced by NFPA.)		
13 - 96	Installation of Sprinkler Systems.....	409.2.2
		409.5, 412.3.6, 412.7, 416.4, 706.2, 906.2.1, 906.9.1, 907.2.1, 907.6.1, 915.5.1, 918.7.3, 1610.6.4, 3011.2.2
13D - 96	Installation of Sprinkler Systems in One- and Two Family Dwellings and Manufactured Homes.....	906.2.3
13R - 96	Installation of Sprinkler System in Residential Occupancies Up to and Including Four Stories in Height.....	906.2.2
		924.1
14 - 96	Standpipe and Hose Systems.....	915.1
		915.4.1, 915.12.1
15 - 96	Water Spray Fixed Systems for Fire Protection.....	908.1
		908.4
16 - 95	Installation of Deluge Foam-Water Sprinkler and Foam-Water Spray Systems.....	911.1
		911.5
17 - 98	Dry Chemical Extinguishing Systems.....	910.1
		910.5
17A - 98	Wet Chemical Extinguishing Systems.....	914.1
		914.5
24 - 95	Installation of Private Fire Service Mains.....	417.6.3
		906.9.1, 915.12.1
30 - 96	Flammable and Combustible Liquids Code.....	307.8
		418.3.2, 419.2.3
30A - 96	Automotive and Marine Service Station Code.....	408.6, 417.6.6
30B - 98	Manufacture and Storage of Aerosol Products.....	307.8
32 - 96	Drycleaning Plants.....	418.3.4
33 - 95	Spray Application Using Flammable and Combustible Materials.....	307.8, 419.1
34 - 95	Dipping and Coating Processes Using Flammable or Combustible Liquids.....	307.8, 419.1
40 - 97	Storage and Handling of Cellulose Nitrate Motion Picture Film.....	411.1
61 - 95	Prevention of Fires and Dust Explosions in Agricultural Food Products Facilities.....	418.3.1
(Note: NFPA 61A - 89, 61B - 89, 61C - 89 and 61D - 89 are replaced by NFPA 61 - 95.)		
65 - 93	Processing and Finishing of Aluminum.....	418.3.1
69 - 97	Explosion Prevention Systems.....	417.5.1.2
70 - 99	National Electrical Code.....	416.11
		416.14.6, 416.15.2, 421.10.1, 602.4.4, 1405.4.3, 2701.1, 2701.3, 2705.1, 2706.1, 2707.1, 2708.3



		2805.2.5, 3102.6.3, 3102.13.1, 3107.6
72 - 96	National Fire Alarm Code.....	403.6
		417.5.3, 918.1, 918.6, 918.7, 918.8.2, 918.9, 918.10, 919.1, 919.4.3, 919.8, 920.1, 920.6, 922.4, 924.1
(Note: NFPA 71-89, 72E-90 and 74-89 are replaced by NFPA 72-93.)		
80 - 95	Fire Doors and Windows.....	302.1.1.1 717.2, 717.5, 1017.4.4
82 - 94	Incinerators and Waste and Linen Handling Systems and Equipment.....	2807.1
102 - 95	Assembly Seating, Tents, and Membrane Structures.....	3104.4
120 - 94	Coal Preparation Plants.....	418.3.1
231C - 98	Rack Storage of Materials.....	507.1 Table 923.2
418 - 95	Standard for Heliports.....	1511.3
495 - 96	Explosive Materials Code.....	Table 307.8(1) 417.5.1, 904.5
651 - 98	Manufacture of Aluminum Powder.....	418.3.1
654 - 97	Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastics Industries.....	418.3.1
655 - 93	Prevention of Sulfur Fires and Explosions.....	418.3.1
664 - 98	Prevention of Fires and Explosions in Wood Processing and Woodworking Facilities.....	418.3.1
701 - 96	Methods of Fire Tests for Flame-Resistant Textiles and Films.....	807.2 807.2.2, 3102.6.4.2, 3103.3.2, 3104.5, 3105.4
704 - 96	Identification of the Fire Hazards of Materials.....	416.2 416.15.1
8503 - 97	Pulverized Fuel Systems.....	418.3.1

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## (Add) APPENDIX A - SNOW, WIND AND EARTHQUAKE DESIGN CRITERIA

Municipality	Ground Snow Load, $P_g$ (psf)	ASCE 7-95 Basic Wind Speed, $V$ (mph)	BOCA 1996 Wind Load Criteria				Seismic Coefficients	
			Basic Wind Speed, $V$ (mph)	Wind Load Importance Factors, $I$			$A_v$	$A_a$
				Building Category (see descriptions at end of table)				
				I	II,III	IV		
Andover	30	115	85	1.04	1.17	0.94	0.11	0.15
Ansonia	30	115	80	1.06	1.19	0.96	0.11	0.15
Ashford	35	115	85	1.04	1.17	0.94	0.11	0.15
Avon	35	110	80	1.04	1.17	0.94	0.11	0.15
Barkhamsted	40	110	75	1.02	1.14	0.92	0.11	0.14
Beacon Falls	30	115	80	1.06	1.19	0.96	0.11	0.15
Berlin	30	115	80	1.06	1.19	0.96	0.11	0.15
Bethany	30	115	80	1.06	1.19	0.96	0.11	0.15
Bethel	30	115	80	1.06	1.19	0.96	0.11	0.15
Bethlehem	35	110	80	1.04	1.17	0.94	0.11	0.15
Bloomfield	35	110	80	1.04	1.17	0.94	0.11	0.15
Bolton	30	115	85	1.04	1.17	0.94	0.11	0.15
Bozrah	30	120	85	1.06	1.19	0.96	0.11	0.15
Branford	30	120	85	1.08	1.21	0.98	0.11	0.15
Bridgeport	30	120	80	1.08	1.21	0.98	0.11	0.15
Bridgewater	35	110	80	1.06	1.19	0.96	0.11	0.15
Bristol	35	115	80	1.04	1.17	0.94	0.11	0.15
Brookfield	35	110	80	1.06	1.19	0.96	0.11	0.15
Brooklyn	35	115	85	1.06	1.19	0.96	0.11	0.15
Burlington	35	110	80	1.04	1.17	0.94	0.11	0.15
Canaan	40	105	75	1.02	1.14	0.92	0.11	0.14
Canterbury	35	120	85	1.06	1.19	0.96	0.11	0.15
Canton	35	110	80	1.04	1.17	0.94	0.11	0.15
Chaplin	35	115	85	1.04	1.17	0.94	0.11	0.15
Cheshire	30	115	80	1.06	1.19	0.96	0.11	0.15
Chester	30	120	85	1.08	1.21	0.98	0.11	0.15
Clinton	30	120	85	1.08	1.21	0.98	0.11	0.14
Colchester	30	120	85	1.06	1.19	0.96	0.11	0.15
Colebrook	40	105	75	1.02	1.14	0.92	0.11	0.14
Columbia	30	115	85	1.06	1.19	0.96	0.11	0.15
Cornwall	40	105	75	1.02	1.14	0.92	0.11	0.14
Coventry	30	115	85	1.04	1.17	0.94	0.11	0.15
Cromwell	30	115	80	1.06	1.19	0.96	0.11	0.15
Danbury	30	115	80	1.06	1.19	0.96	0.11	0.15
Darien	30	115	80	1.08	1.21	0.98	0.11	0.15
Deep River	30	120	85	1.08	1.21	0.98	0.11	0.15
Derby	30	115	80	1.06	1.19	0.96	0.11	0.15
Durham	30	120	85	1.06	1.19	0.96	0.11	0.15
Eastford	40	115	85	1.04	1.17	0.94	0.11	0.15
East Granby	35	110	80	1.02	1.14	0.92	0.11	0.15
East Haddam	30	120	85	1.06	1.19	0.96	0.11	0.15
East Hampton	30	120	85	1.06	1.19	0.96	0.11	0.15
East Hartford	30	115	80	1.04	1.17	0.94	0.11	0.15
East Haven	30	120	85	1.08	1.21	0.98	0.11	0.15

Municipality	Ground Snow Load, $P_g$ (psf)	ASCE 7-95 Basic Wind Speed, $V$ (mph)	BOCA 1996 Wind Load Criteria				Seismic	
			Basic Wind Speed, $V$ (mph)	Wind Load Importance Factors, $I$			Coefficients	
				Building Category (see descriptions at end of table)			$A_v$	$A_a$
				I	II,III	IV		
East Lyme	30	125	85	1.08	1.21	0.98	0.11	0.14
Easton	30	115	80	1.06	1.19	0.96	0.11	0.15
East Windsor	35	110	80	1.04	1.17	0.94	0.11	0.15
Ellington	35	110	80	1.04	1.17	0.94	0.11	0.15
Enfield	35	110	80	1.02	1.14	0.92	0.11	0.15
Essex	30	120	85	1.08	1.21	0.98	0.11	0.14
Fairfield	30	120	80	1.08	1.21	0.98	0.11	0.15
Farmington	35	115	80	1.04	1.17	0.94	0.11	0.15
Franklin	30	120	85	1.06	1.19	0.96	0.11	0.15
Glastonbury	30	115	80	1.04	1.17	0.94	0.11	0.15
Goshen	40	110	75	1.02	1.14	0.92	0.11	0.14
Granby	35	110	80	1.02	1.14	0.92	0.11	0.14
Greenwich	30	115	80	1.08	1.21	0.98	0.11	0.15
Griswold	30	120	85	1.06	1.19	0.96	0.11	0.14
Groton	30	125	85	1.08	1.21	0.98	0.11	0.14
Guilford	30	120	85	1.08	1.21	0.98	0.11	0.15
Haddam	30	120	85	1.06	1.19	0.96	0.11	0.15
Hamden	30	120	80	1.06	1.19	0.96	0.11	0.15
Hampton	35	115	85	1.04	1.17	0.94	0.11	0.15
Hartford	30	115	80	1.04	1.17	0.94	0.11	0.15
Hartland	40	110	75	1.02	1.14	0.92	0.11	0.14
Harwinton	35	110	80	1.04	1.17	0.94	0.11	0.15
Hebron	30	115	85	1.06	1.19	0.96	0.11	0.15
Kent	40	110	75	1.04	1.17	0.94	0.11	0.14
Killingly	40	115	85	1.06	1.19	0.96	0.11	0.15
Killingworth	30	120	85	1.08	1.21	0.98	0.11	0.15
Lebanon	30	120	85	1.06	1.19	0.96	0.11	0.15
Ledyard	30	125	85	1.08	1.21	0.98	0.11	0.14
Lisbon	30	120	85	1.06	1.19	0.96	0.11	0.14
Litchfield	40	110	75	1.04	1.17	0.94	0.11	0.14
Lyme	30	120	85	1.08	1.21	0.98	0.11	0.14
Madison	30	120	85	1.08	1.21	0.98	0.11	0.15
Manchester	30	115	80	1.04	1.17	0.94	0.11	0.15
Mansfield	35	115	85	1.04	1.17	0.94	0.11	0.15
Marlborough	30	115	85	1.06	1.19	0.96	0.11	0.15
Meriden	30	115	80	1.06	1.19	0.96	0.11	0.15
Middlebury	35	115	80	1.06	1.19	0.96	0.11	0.15
Middlefield	30	115	80	1.06	1.19	0.96	0.11	0.15
Middletown	30	115	80	1.06	1.19	0.96	0.11	0.15
Milford	30	120	85	1.08	1.21	0.98	0.11	0.15
Monroe	30	115	80	1.06	1.19	0.96	0.11	0.15
Montville	30	120	85	1.08	1.21	0.98	0.11	0.14
Morris	35	110	75	1.04	1.17	0.94	0.11	0.14
Naugatuck	30	115	80	1.06	1.19	0.96	0.11	0.15
New Britain	30	115	80	1.04	1.17	0.94	0.11	0.15

Municipality	Ground Snow Load, $P_g$ (psf)	ASCE 7-95 Basic Wind Speed, $V$ (mph)	BOCA 1996 Wind Load Criteria				Seismic	
			Basic Wind Speed, $V$ (mph)	Wind Load Importance Factors, $I$			Coefficients	
				Building Category (see descriptions at end of table)			$A_v$	$A_a$
				I	II,III	IV		
New Canaan	30	115	80	1.06	1.19	0.96	0.11	0.15
New Fairfield	35	110	75	1.06	1.19	0.96	0.11	0.15
New Hartford	40	110	75	1.04	1.17	0.94	0.11	0.14
New Haven	30	120	85	1.08	1.21	0.98	0.11	0.15
Newington	30	115	80	1.04	1.17	0.94	0.11	0.15
New London	30	125	85	1.08	1.21	0.98	0.11	0.14
New Milford	35	110	75	1.04	1.17	0.94	0.11	0.14
Newtown	30	115	80	1.06	1.19	0.96	0.11	0.15
Norfolk	40	105	75	1.02	1.14	0.92	0.11	0.14
North Branford	30	120	85	1.08	1.21	0.98	0.11	0.15
North Canaan	40	105	75	1.02	1.14	0.92	0.11	0.14
North Haven	30	120	80	1.06	1.19	0.96	0.11	0.15
North Stonington	30	125	85	1.08	1.21	0.98	0.11	0.14
Norwalk	30	115	80	1.08	1.21	0.98	0.11	0.15
Norwich	30	120	85	1.06	1.19	0.96	0.11	0.14
Old Lyme	30	125	85	1.08	1.21	0.98	0.11	0.14
Old Saybrook	30	125	85	1.08	1.21	0.98	0.11	0.14
Orange	30	120	85	1.08	1.21	0.98	0.11	0.15
Oxford	30	115	80	1.06	1.19	0.96	0.11	0.15
Plainfield	35	120	85	1.06	1.19	0.96	0.11	0.15
Plainville	35	115	80	1.04	1.17	0.94	0.11	0.15
Plymouth	35	110	80	1.04	1.17	0.94	0.11	0.15
Pomfret	40	115	85	1.04	1.17	0.94	0.11	0.15
Portland	30	115	80	1.06	1.19	0.96	0.11	0.15
Preston	30	120	85	1.08	1.21	0.98	0.11	0.14
Prospect	30	115	80	1.06	1.19	0.96	0.11	0.15
Putnam	40	115	85	1.04	1.17	0.94	0.11	0.15
Redding	30	115	80	1.06	1.19	0.96	0.11	0.15
Ridgefield	30	115	80	1.06	1.19	0.96	0.11	0.15
Rocky Hill	30	115	80	1.04	1.17	0.94	0.11	0.15
Roxbury	35	110	80	1.04	1.17	0.94	0.11	0.15
Salem	30	120	85	1.06	1.19	0.96	0.11	0.15
Salisbury	40	105	75	1.02	1.14	0.92	0.11	0.13
Scotland	30	120	85	1.06	1.19	0.96	0.11	0.15
Seymour	30	115	80	1.06	1.19	0.96	0.11	0.15
Sharon	40	105	75	1.02	1.14	0.92	0.11	0.14
Shelton	30	115	80	1.06	1.19	0.96	0.11	0.15
Sherman	35	110	75	1.04	1.17	0.94	0.11	0.14
Simsbury	35	110	80	1.04	1.17	0.94	0.11	0.15
Somers	35	110	80	1.02	1.14	0.92	0.11	0.15
Southbury	35	115	80	1.06	1.19	0.96	0.11	0.15
Southington	30	115	80	1.06	1.19	0.96	0.11	0.15
South Windsor	30	115	80	1.04	1.17	0.94	0.11	0.15

Municipality	Ground Snow Load, $P_g$ (psf)	ASCE 7-95 Basic Wind Speed, $V$ (mph)	BOCA 1996 Wind Load Criteria				Seismic	
			Basic Wind Speed, $V$ (mph)	Wind Load Importance Factors, $I$			Coefficients	
				Building Category (see descriptions at end of table)			$A_v$	$A_a$
				I	II,III	IV		
Sprague	30	120	85	1.06	1.19	0.96	0.11	0.15
Stafford	35	110	80	1.02	1.14	0.92	0.11	0.15
Stamford	30	115	80	1.08	1.21	0.98	0.11	0.15
Sterling	35	120	85	1.06	1.19	0.96	0.11	0.15
Stonington	30	125	85	1.08	1.21	0.98	0.11	0.14
Stratford	30	120	85	1.08	1.21	0.98	0.11	0.15
Suffield	35	110	80	1.02	1.14	0.92	0.11	0.15
Thomaston	35	110	80	1.04	1.17	0.94	0.11	0.15
Thompson	40	115	85	1.04	1.17	0.94	0.11	0.15
Tolland	35	115	80	1.04	1.17	0.94	0.11	0.15
Torrington	40	110	75	1.04	1.17	0.98	0.11	0.14
Trumbull	30	115	80	1.06	1.19	0.96	0.11	0.15
Union	40	115	85	1.04	1.17	0.94	0.11	0.15
Vernon	30	115	80	1.04	1.17	0.94	0.11	0.15
Voluntown	30	120	85	1.06	1.19	0.96	0.11	0.14
Wallingford	30	115	80	1.06	1.19	0.96	0.11	0.15
Warren	40	110	75	1.04	1.17	0.94	0.11	0.14
Washington	35	110	75	1.04	1.17	0.94	0.11	0.14
Waterbury	35	115	80	1.06	1.19	0.96	0.11	0.15
Waterford	30	125	85	1.08	1.21	0.98	0.11	0.14
Watertown	35	110	80	1.04	1.17	0.94	0.11	0.15
Westbrook	30	120	85	1.08	1.21	0.98	0.11	0.14
W. Hartford	30	115	80	1.04	1.17	0.94	0.11	0.15
W. Haven	30	120	85	1.08	1.21	0.98	0.11	0.15
Weston	30	115	80	1.06	1.19	0.96	0.11	0.15
Westport	30	120	80	1.08	1.21	0.98	0.11	0.15
Wethersfield	30	115	80	1.04	1.17	0.94	0.11	0.15
Willington	35	115	85	1.04	1.17	0.94	0.11	0.15
Wilton	30	115	80	1.06	1.19	0.96	0.11	0.15
Winchester	40	110	75	1.02	1.14	0.92	0.11	0.14
Windham	30	120	85	1.06	1.19	0.96	0.11	0.15
Windsor	35	110	80	1.04	1.17	0.94	0.11	0.15
Windsor Locks	35	110	80	1.04	1.17	0.94	0.11	0.15
Wolcott	35	115	80	1.06	1.19	0.96	0.11	0.15
Woodbridge	30	115	80	1.06	1.19	0.96	0.11	0.15
Woodbury	35	110	80	1.04	1.17	0.94	0.11	0.15
Woodstock	40	115	85	1.04	1.17	0.94	0.11	0.15

Building Categories for BOCA 1996 Wind Load Importance Factors:

Category I: All buildings and structures except those listed below.

Category II: Occupancies in Use Group A in which more than 300 people congregate in one area.

Category III: Buildings and structures having essential facilities, including buildings containing any one or more of the indicated occupancies:

1. Fire, rescue and police stations.
2. Use Group I-2 having surgery or emergency treatment facilities.
3. Emergency preparedness centers.
4. Designated shelters for hurricanes.
5. Power generating stations and other utilities required as emergency backup facilities.
6. Primary communication facilities.

Category IV: Buildings and structures that represent a low hazard to human life in the event of failure, such as agricultural buildings, production greenhouses, certain temporary facilities and minor storage facilities.

**Note 1):** Snow load importance factor (I) for the above building categories shall be:

Category I:	1.0
Category II:	1.1
Category III:	1.2
Category IV:	0.8

**PLEASE NOTE THAT THE TITLE OF CABO/ANSI A117.1 HAS BEEN CHANGED TO ICC/ANSI A117.1**

**AMENDMENTS TO ICC/ANSI A117.1 - 1998**

**(Amd) Table 404.2.4.1 - Maneuvering Clearances for Manual Swinging Doors**

TYPE OF USE		MINIMUM CLEARANCES	
Approach Direction	Door Side	Perpendicular to Door <sup>1</sup>	Beyond Latch Parallel to Door
From front	Pull	60 inches	24 inches
From front	Push	48 inches	0 inches <sup>2</sup>
From hinge	Pull	60 inches	36 inches
		54 inches	42 inches
From hinge	Push	42 inches <sup>3</sup>	54 inches
From latch	Pull	48 inches <sup>4</sup>	24 inches
From latch	Push	42 inches <sup>4</sup>	24 inches

<sup>1</sup> Maneuvering space shall include full width of doorway.

<sup>2</sup> Add 12 inches if closer and latch provided.

<sup>3</sup> Add 6 inches if closer and latch provided.

<sup>4</sup> Add 6 inches if closer provided.

(Amd) **502.2 Vehicle Spaces.** Pursuant to subsection (h) of section 14-253a, C.G.S., parking spaces designated for the handicapped on or after October 1, 1979, shall be as near as possible to a building entrance or walkway and shall be 15 feet wide including 3 feet of cross hatch, or parallel to a sidewalk on a public highway.

(Del) **Fig. 502.2 Vehicle Parking Space.** Delete figure without substitution.

(Del) **502.3 Access Aisle.** Delete section and subsections without substitution.

(Amd) **502.4 Floor or Ground Surfaces.** Accessible parking spaces shall have a surface with a gradient not more than one unit vertical to 50 units horizontal (1:50).

[A] (Amd) **502.5 Vertical Clearance.** Accessible parking spaces for vans used by persons with disabilities shall have a height of 114 inches minimum at the space and along the vehicular route thereto.

(Amd) **502.6 Identification.** Accessible parking spaces shall be identified by above grade signs with white lettering on a blue background bearing the words "HANDICAPPED PARKING PERMIT REQUIRED" and "VIOLATORS WILL BE FINED" in addition to the International Symbol of Accessibility.

## AMENDMENTS TO THE 1997 INTERNATIONAL PLUMBING CODE

### CHAPTER 1 - ADMINISTRATION

(Amd) **101.1 Title:** These regulations shall be known as the 1997 International Plumbing Code portion of the State Building Code, hereinafter referred to as “the code” or “this code.”

(Amd) **102.6 Historic buildings:** Pursuant to section 29-259, C.G.S., exemptions may be granted to the provisions of this code for historic structures as defined by section 10-321a, C.G.S., which have been classified as such in the State Register of Historic Places, as long as the provisions of subsection (b) of section 29-259, C.G.S., are adhered to and provided that such exemptions shall not affect the safe design, use or construction of such property.

(Amd) **103.2 Appointment:** The chief executive officer of any town, city or borough shall appoint an officer to administer this code, and this officer shall be known as the “building official” in accordance with section 29-260, C.G.S., and referred to herein as the building official, local building official, or code official.

(Del) **104.2 Rule making authority:** Delete without substitution.

(Amd) **104.5 Right of entry:** In accordance with the provisions of section 29-261, C.G.S., the building official or his assistant shall have the right of entry to buildings or structures, except single-family residences, for the proper performance of his duties between the hours of nine a.m. and five p.m., except that in the case of an emergency, he shall have the right of entry at any time, if such entry is necessary in the interest of public safety. On receipt of information from the local fire marshal or from any other authentic source that any building in his jurisdiction, due to lack of exit facilities, fire, deterioration, catastrophe or other cause, is in such condition as to be a hazard to any person or persons, the building official or his assistant shall immediately make inspection in accordance with the provisions of section 29-393, C.G.S.

(Amd) **105.1 Modifications:** The State Building Inspector may grant variations or exemptions from, or approve equivalent or alternative compliance with the State Building Code where strict compliance with the code would entail practical difficulty or unnecessary hardship, or is otherwise adjudged unwarranted, provided that the intent of the law shall be observed and public welfare and safety be assured. Any person aggrieved by any decision of the State Building Inspector may appeal to the Codes and Standards Committee within 14 days after mailing of the decision in accordance with subsection (b) of section 29-254, C.G.S.

(Add) **105.1.1 Accessibility exemptions:** Any variation of or exemption from any provisions relating to accessibility to, use of, and egress from, buildings and structures as required herein shall be permitted only when approved by the State Building Inspector and the Executive Director of the Office of Protection and Advocacy for Persons with Disabilities, acting jointly, pursuant to subsection (b) of section 29-269, C.G.S. Any person aggrieved by the joint decision of the State Building Inspector and the Executive Director of the Office of Protection and Advocacy for Persons with Disabilities may appeal to the Codes and Standards Committee within 30 days after such decision has been rendered in accordance with section 29-269, C.G.S.

(Amd) **106.4 Permit issuance:** The application, construction documents and other data filed by the applicant for the permit shall be reviewed by the code official within 30 days after the date of application. If the code official finds that the proposed work conforms to the requirements of this code and that the required fees have been paid, a permit shall be issued to the applicant. If the application and supporting documents do not meet the aforesaid requirements, the code official shall reject the application in writing.



(Add) **106.4.6.1 Return of construction documents:** In accordance with the provisions of subsection (e) of section 29-261, C.G.S., the code official shall return construction documents which are on file at the time of the request for the issuance of a certificate of occupancy for any single-family dwelling or out-building to the owner of such dwelling or building no earlier than two years after the issuance of the certificate of occupancy. Unless a written request for return of such documents was made at the time that the certificate of occupancy was issued, the documents may be disposed of in accordance with the provisions of Chapter 97, C.G.S.

[A] (Del) **106.5.1 Work commencing before permit issuance.** Delete section without substitution.

(Amd) **106.5.2 Fee schedule:** Each municipality shall establish a schedule of fees for each construction document review, building permit, and certificate of occupancy. A schedule of adopted fees shall be posted for public view.

(Amd) **106.5.3 Fee refunds:** In the case of the revocation of a permit or abandonment or discontinuance of a building project, the portion of the work actually completed shall be computed and any excess fee for the incomplete work shall be returned to the permit holder upon written request. All plan examination and permit processing fees and all penalties that have been imposed on the permit holder under the requirements of this code shall first be collected.

(Amd) **108.4 Violation penalties:** Any person who violates any provisions of this code shall be fined not less than two hundred nor more than one thousand dollars, or imprisoned not more than six months or both, pursuant to section 29-254a, C.G.S.

(Amd) **108.5 Stop work orders:** Upon notice from the code official, work on any plumbing system that is being done contrary to the provisions of this code or in a dangerous or unsafe manner shall immediately cease. Such notice shall be in writing and shall be given to the owner of the property, or to the owner's agent, or to the person doing the work. The notice shall state the conditions under which the work is authorized to resume. Where an emergency exists, the code official shall not be required to give a written notice prior to stopping the work. Any person who shall continue any work in or about the structure after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe conditions, shall be liable for penalties in accordance with Section 108.4.

(Amd) **109.1 Application for appeal:** When the code official rejects or refuses to approve the mode or manner of construction proposed to be followed or the materials to be used in the erection or alteration of a building or structure, or when it is claimed that the provisions of the code do not apply or that an equally good or more desirable form of construction can be employed in a specific case, or when it is claimed that the true intent and meaning of the code and regulations have been misconstrued or wrongly interpreted, the permit, in whole or in part, having been refused by the code official, or when the code official issues a written order under subsection (c) of section 29-261, C.G.S., the owner of such building or structure, whether already erected or to be erected, or his authorized agent may appeal in writing from the decision of the code official to the municipal board of appeals. A person, other than such owner, who claims to be aggrieved by any decision of the code official may, by himself or his authorized agent, appeal in writing from the decision of the code official to the municipal board of appeals as provided by subsection (b) of section 29-266, C.G.S.

(Add) **109.1.1 State Building Inspector review:** In accordance with the provisions of section 29-252, C.G.S., the State Building Inspector or his designee shall review a decision by a local building official or municipal board of appeals appointed pursuant to section 29-266, C.G.S., when he has reason to believe that such official or board has misconstrued or misinterpreted any provision of the State Building Code.

(Amd) **109.2 Membership of board:** A municipal board of appeals consisting of five members shall be appointed in accordance with the provisions of subsection (a) of section 29-266, C.G.S.

(Amd) **109.2.1 Qualifications:** One member of the municipal board of appeals shall be appointed from the general public. The other four members shall have at least five years experience each in either building design, building construction, or supervision of building construction.

(Amd) **109.3 Notice of meeting:** Each appeal under this subsection shall be heard in the municipality for which the code official serves within five days, exclusive of Saturdays, Sundays, and legal holidays, after the date of receipt of the appeal.

(Amd) **109.4.1 Procedure:** Upon receipt of an appeal from a person other than the owner or his agent, the municipal board of appeals shall first determine whether such person has a right to appeal.

(Add) **109.4.2 Appointment of panel:** Upon receipt of an appeal from an owner or his agent, or approval of an appeal by a person other than the owner, the chairman of the municipal board of appeals shall appoint a panel of not less than three members of such board to hear such appeal.

(Del) **109.5 Postponed hearing:** Delete without substitution.

(Amd) **109.6 Board decision:** The panel shall, upon majority vote of its members, affirm, modify or reverse the decision of the code official in a written decision upon the appeal and file such decision with the code official from whom such appeal has been taken not later than five days, exclusive of Saturdays, Sundays and legal holidays, following the day of the hearing thereon. A copy of the decision shall be mailed, prior to such filing, to the party taking the appeal.

(Amd) **109.7 Appeal to the Codes and Standards Committee:** Any person aggrieved by the decision of a municipal board of appeals may appeal to the Codes and Standards Committee within 14 days after the filing of the decision with the code official in accordance with the provisions of section 29-266, C.G.S.

(Add) **109.8 Court review:** Any person aggrieved by any ruling of the Codes and Standards Committee may appeal to the Superior Court for the judicial district where such building or structure has been or is being erected.

### CHAPTER 3 - GENERAL REGULATIONS

(Amd) **305.6 Freezing:** A water, soil or waste pipe shall not be installed outside of a building, or concealed in outside walls or in any place subjected to freezing temperature, unless adequate provision is made to protect such pipe from freezing by insulation or heat or both. Water service pipe shall be installed not less than 48 inches deep or deeper if required by local conditions.

(Amd) **305.6.1 Sewer depth:** The minimum building sewer depth shall be determined by the Public Health Code of the State of Connecticut adopted pursuant to section 19a-36, C.G.S.

(Del) **Section 311:** Delete entire section without substitution.

## CHAPTER 4 - FIXTURES, FAUCETS AND FIXTURE FITTINGS

[A] (Amd) **TABLE 403.1**  
**MINIMUM NUMBER OF PLUMBING FACILITIES<sup>a</sup>**  
**(see Sections 403.2 and 403.3)**

OCCUPANCY		WATER CLOSETS (Urinals see Section 419.2)		LAVATORIES	BATHTUBS/ SHOWERS	DRINKING FOUNTAINS (see Section 410.1)	OTHERS
		Male	Female				
A	Theaters	1 per 125	1 per 65	1 per 200	-	1 per 1,000	1 service sink
S	Nightclubs	1 per 40	1 per 40	1 per 75	-	1 per 500	1 service sink
S	Restaurants	1 per 75	1 per 75	1 per 200	-	1 per 500	1 service sink
E	Halls, museums, etc.	1 per 125	1 per 65	1 per 200	-	1 per 1,000	1 service sink
M	Coliseums, arenas	1 per 75	1 per 40	1 per 150	-	1 per 1,000	1 service sink
B	Churches <sup>b</sup>	1 per 150	1 per 75	1 per 200	-	1 per 1,000	1 service sink
L	Stadiums, pools, etc.	1 per 100	1 per 50	1 per 150	-	1 per 1,000	1 service sink
Y	Business (see Section 403.2, 403.4 and 403.5)	1 per 25		1 per 40	-	1 per 100	1 service sink
	Educational	1 per 50		1 per 50	-	1 per 100	1 service sink
	Factory and industrial	1 per 100		1 per 100	(see Section 411)	1 per 400	1 service sink
	High hazard (see Sections 403.2 and 403.4)	1 per 100		1 per 100	(see Section 411)	1 per 1,000	1 service sink
I	Residential care	1 per 10		1 per 10	1 per 8	1 per 100	1 service sink
N	Hospitals, ambulatory nursinghome patients <sup>c</sup>	1 per room <sup>d</sup>		1 per room <sup>d</sup>	1 per 15	1 per 100	1 service sink per floor
S	Day nurseries, sanitariums, nonambulatory nursing home patients, etc. <sup>c</sup>	1 per 15		1 per 15	1 per 15 <sup>c</sup>	1 per 100	1 service sink
T	Employees, other than residential care <sup>c</sup>	1 per 25		1 per 35	-	1 per 100	-
I	Visitors, other than residential care	1 per 75		1 per 100	-	1 per 500	-
O	Prisons <sup>c</sup>	1 per cell		1 per cell	1 per 15	1 per 100	1 service sink
N	Asylums, reformatories, etc. <sup>c</sup>	1 per 15		1 per 15	1 per 15	1 per 100	1 service sink
A	Mercantile (see Sections 403.2, 403.4 and 403.5)	1 per 500		1 per 750	-	1 per 1,000	1 service sink

OCCUPANCY		WATER CLOSETS (Urinals see Section 419.2)		LAVATORIES	BATHTUBS/ SHOWERS	DRINKING FOUNTAINS (see Section 410.1)	OTHERS
		Male	Female				
R E S I D E N T I A L	Hotels, motels	1 per guest room		1 per guest room	1 per guest room	-	1 service sink
	Bed and breakfast establishments <sup>g</sup>	1 per 2 guest rooms		1 per 2 guest rooms	1 per 2 guest rooms	-	-
	Lodges	1 per 10		1 per 10	1 per 8	1 per 100	1 service sink
	Multiple family	1 per dwelling unit		1 per dwelling unit	1 per dwelling unit	-	1 kitchen sink per dwelling unit; 1 automatic clothes washer connection per 20 dwelling units
	Dormitories	1 per 10		1 per 10	1 per 8	1 per 100	1 service sink
	One- and two-family dwellings	1 per dwelling unit		1 per dwelling unit	1 per dwelling unit	-	1 kitchen sink per dwelling unit; 1 automatic clothes washer connection per dwelling unit <sup>f</sup>
Storage (see Sections 403.2 and 403.4)		1 per 100		1 per 100	(see Section 411)	1 per 1,000	1 service sink

- <sup>a</sup> The fixtures shown are based on one fixture being the minimum required for the number of persons indicated or any fraction of the number of persons indicated. The number of occupants shall be determined by the building code.
- <sup>b</sup> Fixtures located in adjacent buildings under the ownership or control of the church shall be made available during periods the church is occupied.
- <sup>c</sup> Toilet facilities for employees shall be separate from facilities for inmates or patients.
- <sup>d</sup> A single-occupant toilet room with one water closet and one lavatory serving not more than two adjacent patient rooms shall be permitted where such room is provided with direct access from each patient room and with provisions for privacy.
- <sup>e</sup> For day nurseries, a maximum of one bathtub shall be required.
- <sup>f</sup> For attached one- and two-family dwellings, one automatic clothes washer connection shall be required per 20 dwelling units.
- <sup>g</sup> Plumbing facilities in Use Group R-1 *bed and breakfast establishments* shall be permitted to be accessed from hallways and corridors and to be shared by guests.

(Amd) **404.1 Where required:** Toilet rooms and bathing facilities containing fixtures for occupants of a structure that is required to be accessible by the State Building Code shall have at least one fixture or element of each type accessible in accordance with this section and ICC/ANSI A117.1, formerly entitled CABO/ANSI A117.1, referenced in Chapter 14. Where water closet compartments are provided in a toilet room or bathing facility, a wheelchair-accessible compartment shall be provided in accordance with ICC/ANSI A117.1, formerly entitled CABO/ANSI A117.1, referenced in Chapter 14. Where a combined total of six or more water closet compartments and urinals are provided in a toilet room or bathing facility, at least one ambulatory-accessible compartment shall be provided in accordance with ICC/ANSI A117.1, formerly entitled CABO/ANSI A117.1, referenced in Chapter 14, in addition to the wheelchair-accessible compartment. At least 50 percent of drinking fountains, but not less than one, provided on each floor shall be accessible. Accessible routes to plumbing fixtures shall be provided in accordance with the requirements of the State Building Code.

**Exceptions:**

1. A private toilet room or bathing facility intended for utilization by a single occupant shall be permitted to be adaptable.
2. This section shall not apply to dwelling units, guestrooms and patient toilet rooms that are not required by the State Building Code to be accessible or adaptable.

(Amd) **404.2** Delete entire section and subsections and replace with: **Type A dwelling units:** Kitchens, toilets and bathing facilities shall comply with the requirements for Type A dwelling units in ICC/ANSI A117.1, formerly entitled CABO/ANSI A117.1, referenced in Chapter 14.

(Amd) **404.3** Delete entire section and subsections and replace with: **Type B dwelling units:** Kitchens, toilets and bathing facilities shall comply with the requirements for Type B dwelling units in ICC/ANSI A117.1, formerly entitled CABO/ANSI A117.1, referenced in Chapter 14.

(Add) **404.4 Additional grab bar:** In addition to grab bars required by ICC/ANSI A117.1, formerly entitled CABO/ANSI A117.1, referenced in Chapter 14, a separate, additional swing grab bar shall be provided at a minimum of one accessible toilet location for each gender per floor within any non-exempt building. Such additional grab bar shall be located the same distance from the water closet centerline to the side grab bar, parallel to, opposite from, and at the same height as the side grab bar. The additional grab bar shall be floor mounted or wall mounted, and shall fix or latch firmly in place when in use. The mounting height of the required rear bar may be varied to coordinate with the swing grab bar. The swing grab bar shall be not less than 24 inches nor more than 36 inches in length, and shall be capable of swinging and storing against a wall or partition when not required.

**Exception:** Areas in Use Groups E, R-2, R-3 and I-3 not serving public and administrative functions.

(Add) **404.5 Faucets and controls:** The controls to operate a faucet shall be located no more than 25 inches from the front face of a lavatory, kitchen sink, counter or vanity. At least one lavatory per gender per bathroom shall have its faucet and control located within 13 inches from the face of the fixture or vanity front. Lavatory faucets on accessible fixtures shall comply with the requirements of ICC/ANSI A117.1, formerly entitled CABO/ANSI A117.1, referenced in Chapter 14.

(Add) **404.6 Pull handle:** Where accessible water closet compartments are provided, the compartment doors shall have a pull handle 6 inches from the hinge side of the compartment side of the door. This

handle shall be between 26 inches and 36 inches from the floor and shall meet the requirements of Section 404.2.7 of ICC/ANSI A117.1, formerly entitled CABO/ANSI A117.1, referenced in Chapter 14.

(Add) **405.3.3 Accessible fixtures:** All fixtures required to be accessible to persons with disabilities shall be installed following the clearances and dimensions as set forth in ICC/ANSI A117.1, formerly entitled CABO/ANSI A117.1, referenced in Chapter 14.

(Add) **412.5 Connection required:** Floor drains shall connect to the sanitary sewer system or to an on-site holding tank(s) when the discharge contains oil, grease, sand or other harmful or hazardous substances. Interceptors and separators shall be provided in accordance with Section 1003 when floor drains connect to the sanitary sewer system, and shall be installed in accordance with the Public Health Code of the State of Connecticut adopted pursuant to section 19a-36, C.G.S. Floor drains shall not be connected to a storm sewer, a storm drainage system or a storm building drain. Floor drains shall have trap seals in accordance with Section 1002.4.

## CHAPTER 6 - WATER SUPPLY AND DISTRIBUTION

(Amd) **608.17 Protection of individual water supplies:** An individual water supply shall be located and constructed so as to be safeguarded against contamination in accordance with the Public Health Code of the State of Connecticut.

(Del) **608.17.1 through 608.17.8:** Delete without substitution.

## CHAPTER 9 – VENTS

[A] (Amd) **904.1 Roof extension.** All open vent pipes that extend through a roof shall be terminated at least 12 inches above the roof, except that where a roof is to be used for any purpose other than weather protection, the vent extension shall be run at least 7 feet above the roof.

## CHAPTER 14 - REFERENCED STANDARDS

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(Amd) **CABO** Council of American Building Officials  
Suite 201  
5203 Leesburg Pike  
Falls Church, VA 22041

PLEASE NOTE THAT THE TITLE OF THE CABO/ANSI A 117.1 STANDARD HAS BEEN CHANGED TO ICC/ANSI A117.1

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Standard reference number	Title	Referenced in code section number
ICC/ANSI A117.1 - 1998	Accessible and Usable Buildings and Facilities.....	1007.5.4 1014.11.4, 1016.5.1, 1101.1, 1102.1, 1103.2, 1105.1, 1106.2, 1107.2.2, 1107.3.2, 1107.4.1.1, 1107.4.2, 1108.2.1, 1108.7, 3006.3

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 (Amd) **CODES**


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Standard reference number	Title	Referenced in code section number
	State Building Code.....	201.3, 305.4, 307.1, 307.2, 307.3, 308.2, 309.1.1, 309.1.2, 310.1, 310.3, 403.1, Table 403.1, 404.1, 404.3, 407.3, 417.6, 606.5.2
	1996 International Mechanical Code as Amended.....	201.3, 310.1, 422.9, 502.1, 1201.2, 1302.1

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(Amd) **NFPA**      National Fire Protection Association  
 Batterymarch Park  
 Quincy, MA 02269

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Standard reference number	Title	Referenced in code section number
50-96	Bulk Oxygen Systems at Consumer Sites.....	1301.1
51-97	Oxygen-Fuel Gas Systems for Welding, Cutting, and Allied Processes.....	1301.1
70-99	National Electrical Code.....	502.1, 1111.3.3
99C-96	Gas and Vacuum Systems.....	1302.1

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(Del) APPENDIX A - **Plumbing Permit Fee Schedule** - Delete without substitution.

## AMENDMENTS TO THE 1996 INTERNATIONAL MECHANICAL CODE

### CHAPTER 1 ADMINISTRATION

(Amd) **101.1 Title:** These regulations shall be known as the 1996 International Mechanical Code portion of the State Building Code, hereinafter referred to as “the code” or “this code.”

(Amd) **102.6 Historic buildings:** Pursuant to section 29-259, C.G.S., exemptions may be granted to the provisions of this code for historic structures as defined by section 10-321a, C.G.S., which have been classified as such in the State Register of Historic Places, as long as the provisions of subsection (b) of section 29-259, C.G.S., are adhered to and provided that such exemptions shall not affect the safe design, use or construction of such property.

(Amd) **103.2 Appointment:** The chief executive officer of any town, city or borough shall appoint an officer to administer this code, and this officer shall be known as the “building official” in accordance with section 29-260, C.G.S., and referred to herein as the building official, local building official or code official.

(Del) **104.2 Rule making authority:** Delete without substitution.

(Amd) **104.5 Right of entry:** In accordance with the provisions of section 29-261, C.G.S., the building official or his assistant shall have the right of entry to buildings or structures, except single-family residences, for the proper performance of his duties between the hours of nine a.m. and five p.m., except that in the case of an emergency, he shall have the right of entry at any time, if such entry is necessary in the interest of public safety. On receipt of information from the local fire marshal or from any other authentic source that any building in his jurisdiction, due to lack of exit facilities, fire, deterioration, catastrophe or other cause, is in such condition as to be a hazard to any person or persons, the building official or his assistant shall immediately make inspection in accordance with the provisions of section 29-393, C.G.S.

(Amd) **105.1 Modifications:** The State Building Inspector may grant variations or exemptions from, or approve equivalent or alternative compliance with the State Building Code where strict compliance with the code would entail practical difficulty or unnecessary hardship, or is otherwise adjudged unwarranted, provided that the intent of the law shall be observed and public welfare and safety be assured. Any person aggrieved by any decision of the State Building Inspector may appeal to the Codes and Standards Committee within 14 days after mailing of the decision in accordance with subsection (b) of section 29-254, C.G.S.

(Add) **105.1.1 Accessibility exemptions:** Any variation of or exemption from any provisions relating to accessibility to, use of, and egress from, buildings and structures as required herein shall be permitted only when approved by the State Building Inspector under this section and Executive Director of the Office of Protection and Advocacy for Persons with Disabilities, acting jointly, pursuant to subsection (b) of section 29-269, C.G.S. Any person aggrieved by the joint decision of the State Building Inspector and the Executive Director of the Office of Protection and Advocacy for Persons with Disabilities, may appeal to the Codes and Standards Committee within 30 days after such decision has been rendered in accordance with section 29-269, C.G.S.

(Amd) **106.4 Permit issuance:** The application, construction documents and other data filed by the applicant for the permit shall be reviewed by the code official within 30 days after the date of application. If the code official finds that the proposed work conforms to the requirements of this code and that the



required fees have been paid, a permit shall be issued to the applicant. If the application and supporting documents do not meet the aforesaid requirements, the code official shall reject the application in writing.

(Add) **106.4.6.1 Return of construction documents:** In accordance with the provisions of subsection (e) of section 29-261, C.G.S., the code official shall return construction documents which are on file at the time of the request for the issuance of a certificate of occupancy for any single-family dwelling or out-building to the owner of such dwelling or building no earlier than two years after the issuance of the certificate of occupancy. Unless written request for return of such documents was made at the time that the certificate of occupancy was issued, the documents may be disposed of in accordance with the provisions of Chapter 97, C.G.S.

[A] (Del) **106.5.1 Work commencing before permit issuance.** Delete section without substitution.

(Amd) **106.5.2 Fee schedule:** Each municipality shall establish a schedule of fees for each construction document review, building permit, and certificate of occupancy. A schedule of adopted fees shall be posted for public view.

(Amd) **106.5.3 Fee refunds:** In the case of the revocation of a permit or abandonment or discontinuance of a building project, the portion of the work actually completed shall be computed and any excess fee for the incomplete work shall be returned to the permit holder upon written request. All plan examination and permit processing fees and all penalties that have been imposed on the permit holder under the requirements of this code shall first be collected.

(Amd) **108.4 Violation penalties:** Any person who violates any provisions of this code shall be fined not less than two hundred nor more than one thousand dollars, or imprisoned not more than six months or both, pursuant to section 29-254a, C.G.S.

(Amd) **108.5 Stop work orders:** Upon notice from the code official, work on any mechanical system that is being done contrary to the provisions of this code or in a dangerous or unsafe manner shall immediately cease. Such notice shall be in writing and shall be given to the owner of the property, or to the owner's agent, or to the person doing the work. The notice shall state the conditions under which the work is authorized to resume. Where an emergency exists, the code official shall not be required to give a written notice prior to stopping the work. Any person who shall continue any work in or about the structure after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe conditions, shall be liable for penalties in accordance with Section 108.4.

(Amd) **109.1 Application for appeal:** When the code official rejects or refuses to approve the mode or manner of construction proposed to be followed or the materials to be used in the erection or alteration of a building or structure, or when it is claimed that the provisions of the code do not apply or that an equally good or more desirable form of construction can be employed in a specific case, or when it is claimed that the true intent and meaning of the code and regulations have been misconstrued or wrongly interpreted, the permit, in whole or in part, having been refused by the code official, or when the code official issues a written order under subsection (c) of section 29-261, C.G.S., the owner of such building or structure, whether already erected or to be erected, or his authorized agent may appeal in writing from the decision of the code official to the municipal board of appeals. A person, other than such owner, who claims to be aggrieved by any decision of the code official may, by himself or his authorized agent, appeal in writing from the decision of the code official to the municipal board of appeals as provided by subsection (b) of section 29-266, C.G.S.

(Add) **109.1.1 State Building Inspector review:** In accordance with the provisions of section 29-252, C.G.S., the State Building Inspector or his designee shall review a decision by a local building official or municipal board of appeals appointed pursuant to section 29-266, C.G.S., when he has reason to believe that such official or board has misconstrued or misinterpreted any provision of the State Building Code.

(Amd) **109.2 Membership of board:** A municipal board of appeals consisting of five members shall be appointed in accordance with the provisions of subsection (a) of section 29-266, C.G.S.

(Amd) **109.2.1 Qualifications:** One member of the municipal board of appeals shall be appointed from the general public. The other four members shall have at least five years experience each in either building design, building construction, or supervision of building construction.

(Amd) **109.3 Notice of meeting:** Each appeal under this subsection shall be heard in the municipality for which the code official serves within five days, exclusive of Saturdays, Sundays, and legal holidays, after the date of receipt of the appeal.

(Amd) **109.4.1 Procedure:** Upon receipt of an appeal from a person other than the owner or his agent, the municipal board of appeals shall first determine whether such person has a right to appeal.

(Add) **109.4.2 Appointment of panel:** Upon receipt of an appeal from an owner or his agent, or approval of an appeal by a person other than the owner, the chairman of the municipal board of appeals shall appoint a panel of not less than three members of such board to hear such appeal.

(Del) **109.5 Postponed hearing:** Delete without substitution.

(Amd) **109.6 Board decision:** The panel shall, upon majority vote of its members, affirm, modify or reverse the decision of the code official in a written decision upon the appeal and file such decision with the code official from whom such appeal has been taken not later than five days, exclusive of Saturdays, Sundays and legal holidays, following the day of the hearing thereon. A copy of the decision shall be mailed, prior to such filing, to the party taking the appeal.

(Amd) **109.7 Appeal to the Codes and Standards Committee:** Any person aggrieved by the decision of a municipal board of appeals may appeal to the Codes and Standards Committee within 14 days after the filing of the decision with the code official in accordance with the provisions of section 29-266, C.G.S.

(Add) **109.8 Court review:** Any person aggrieved by any ruling of the Codes and Standards Committee may appeal to the Superior Court for the judicial district in which such building or structure has been or is being erected.

## CHAPTER 3 GENERAL REGULATIONS

(Amd) **301.1 Scope:** Except as may be otherwise regulated by Chapters 540 and 541, C.G.S., or regulations of other state agencies, this chapter shall govern the approval and installation of all equipment and appliances that comprise parts of the building mechanical systems regulated by this code in accordance with Section 101.2.

## CHAPTER 10 BOILERS, WATER HEATERS AND PRESSURE VESSELS

(Add) **1001.1.1 Boilers and water heaters:** Boilers and water heaters shall also be governed by the regulations set forth in Chapter 540, C.G.S.

## CHAPTER 16 - REFERENCED STANDARDS

### [A] (Amd) **CODES -**

Standard reference number	Title	Referenced in code section number
	State Building Code.....	201.3, 202, 301.14, 302.1, 304.5, 304.8, 308.8, 308.9, 401.4, 401.8, 402.4, 404.1, 504.2, 506.6, 506.12, 510.6.1, 510.6.2, 510.7, 511.1.5, 602.3, 603.1, 603.11, 603.14, 604.4, 606.2.1, 607.1, 607.2, 607.3, 607.7, 703.2.1, 703.2.2, 801.3, 801.17.1, 902.1, 911.3, 911.4, 913.3, 1004.6, 1105.3, 1106.5, 1206.4, 1401.2.2, 1502.3, 1502.3.1
	State Fire Safety Code.....	201.3, 502.4, 502.8, 509.6, 510.4, 1301.2, 1310.3, 1401.1, 1401.2, 1401.2.1
MEC - 95	CABO Model Energy Code.....	301.2, 604.1, 1204.1, 1204.2
IPC - 97	ICC International Plumbing Code.....	201.3, 301.8, 307.2.1, 512.2, 911.5, 1002.1, 1005.2, 1006.6, 1008.2, 1009.3, 1101.4, 1201.1, 1206.2, 1206.3, 1501.2

(Del) **Appendix B - Recommended permit fee schedule** - Delete without substitution.

## AMENDMENTS TO THE CABO ONE AND TWO FAMILY DWELLING CODE 1995 EDITION

### CHAPTER 1 - GENERAL ADMINISTRATION

(Amd) **101.1 One and Two Family Dwelling Code:** These regulations shall be known as the 1995 CABO One and Two Family Dwelling Code portion of the State Building Code, hereinafter referred to as "the code" or "this code."

(Amd) **103.1 Application:** Unless at the time of permit application the applicant chooses to follow the requirements of Use Group R-3 as set forth in the BOCA National Building Code/1996 portion of the State Building Code, the provisions of the 1995 CABO One and Two Family Dwelling Code shall apply to the construction, addition, prefabrication, alteration, repair, use, occupancy and maintenance of detached one- and two-family dwellings and one-family townhouses not more than two stories and 35 feet in height, plus habitable attic, 4,800 square feet per floor, and their accessory structures. This code shall be considered the minimum requirements for structures in the R-4 Use Group classification and shall be followed in its entirety. Structures exceeding these limitations shall comply with Use Group R-3 in the BOCA National Building Code/1996 portion of the State Building Code.

(Amd) **105.1 Entry:** In accordance with the provisions of section 29-261, C.G.S., the building official or his assistant shall have the right of entry to buildings or structures, except single-family residences, for the proper performance of his duties between the hours of nine a.m. and five p.m., except that in the case of an emergency, he shall have the right of entry at any time, if such entry is necessary in the interest of public safety. On receipt of information from the local fire marshal or from any other authentic source that any building in his jurisdiction, due to lack of exit facilities, fire, deterioration, catastrophe or other cause, is in such condition as to be a hazard to any person or persons, the building official or his assistant shall immediately make inspection in accordance with the provisions of section 29-393, C.G.S.

(Amd) **106.2 Violation and penalties:** Any person who violates any provisions of this code shall be fined not less than two hundred nor more than one thousand dollars, or imprisoned not more than six months or both, pursuant to section 29-254a, C.G.S.

(Del) **106.4 Penalty -** Delete without substitution.

(Del) **SECTION 107 - RIGHT OF APPEAL** Delete this section in its entirety and replace with the following:

(Add) **107.1 Appeal from decision of code official.** When the code official rejects or refuses to approve the mode or manner of construction proposed to be followed or the materials to be used in the erection or alteration of a building or structure, or when it is claimed that the provisions of the code do not apply or that an equally good or more desirable form of construction can be employed in a specific case, or when it is claimed that the true intent and meaning of the code has been misconstrued or wrongly interpreted, the permit, in whole or in part, having been refused by the code official, or when the code official issues a written order under subsection (c) of section 29-261, C.G.S., the owner of such building or structure, whether already erected or to be erected, or his authorized agent may appeal in writing from the decision of the code official to the municipal board of appeals. A person, other than such owner, who claims to be aggrieved by any decision of the code official may, by himself or his authorized agent, appeal in writing from the decision of the code official to the municipal board of appeals as provided by section 29-266, C.G.S.

(Add) **107.1.1 State Building Inspector review.** In accordance with the provisions of section 29-252, C.G.S., the State Building Inspector or his designee shall review a decision by a local building official or municipal board of appeals appointed pursuant to section 29-266, C.G.S., when he has reason to believe that such official or board has misconstrued or misinterpreted any provision of the State Building Code.

(Add) **107.2 Appointment of municipal board of appeals.** A municipal board of appeals consisting of five members shall be appointed in accordance with the provisions of subsection (a) of section 29-266, C.G.S.

(Add) **107.2.1 Qualifications.** One member of the municipal board of appeals shall be appointed from the general public. The other four members shall have at least five years experience each in either building design, building construction, or supervision of building construction.

(Add) **107.2.2 Alternate members.** The chief appointing authority shall appoint two alternate members who shall be called by the board chairman to hear appeals during the absence or disqualification of a member. Alternate members shall possess the qualifications required for board membership, and shall be appointed for five years or until a successor has been appointed.

(Add) **107.2.3 Chairman.** The board shall annually select one of its members to serve as chairman.

(Add) **107.2.4 Disqualification of member.** A member shall not hear an appeal in which that member has any personal, professional or financial interest.

(Add) **107.2.5 Secretary.** The chief administrative officer shall designate a qualified clerk to serve as secretary to the board. The secretary shall file a detailed record of all proceedings in the office of the chief administrative officer.

(Add) **107.3 Notice of meeting.** Each appeal under this subsection shall be heard in the municipality for which the code official serves within five days, exclusive of Saturdays, Sundays, and legal holidays, after the date of receipt of the appeal.

(Add) **107.4 Open hearing.** All hearings before the board shall be open to the public. The appellant, the appellant's representative, the code official and any person whose interests are affected shall be given an opportunity to be heard.

(Add) **107.4.1 Determination of aggrievement.** Upon receipt of an appeal from a person other than the owner or his agent, the board of appeals shall first determine whether such person has a right to appeal.

(Add) **107.4.2 Appointment of a panel.** Upon receipt of an appeal from an owner or his agent, or approval of an appeal by a person other than the owner, the chairman of the municipal board of appeals shall appoint a panel of not less than three members of such board to hear such appeal.

(Add) **107.5 Rendering of decisions.** The panel shall, upon majority vote of its members, affirm, modify or reverse the decision of the code official in a written decision upon the appeal and file such decision with the code official from whom such appeal has been taken not later than five days, exclusive of Saturdays, Sundays and legal holidays, following the day of the hearing thereon. A copy of the decision shall be mailed, prior to such filing, to the party taking the appeal.

(Add) **107.5.1 Resolution.** The decision by the board shall be by resolution. Certified copies shall be furnished to the appellant and to the code official.

(Add) **107.5.2 Administration.** The code official shall take immediate action in accordance with the decision of the board.

(Add) **107.6 Appeal to the Codes and Standards Committee.** Any person aggrieved by the decision of a municipal board of appeals may appeal to the Codes and Standards Committee within 14 days after the filing of the decision with the code official in accordance with the provisions of section 29-266, C.G.S.

(Add) **107.7 Court review.** Any person aggrieved by any ruling of the Codes and Standards Committee may appeal to the Superior Court for the judicial district where such building or structure has been or is being erected.

(Amd) **108.1 Alternate materials, methods and equipment:** The provisions of this code are not intended to prevent the installation of any material or to prohibit any method of construction not specifically prescribed by this code, provided that any such alternative has been approved. An alternative material or method of construction shall be approved when the code official finds that the proposed design is satisfactory and complies with the intent of the provisions of this code, and that the material, method or work offered is, for the purpose intended, at least the equivalent of that prescribed in this code in quality, strength, effectiveness, fire-resistance, durability and safety.

(Amd) **108.3 Tests.** In the absence of approved rules or other approved standards, the code official shall make, or cause to be made, the necessary tests and investigations; or the code official shall accept duly authenticated reports from approved agencies regarding the quality and manner of use of new materials or assemblies. The cost of all tests and other investigations shall be borne by the permit applicant.

(Amd) **109.1 Modifications:** The State Building Inspector may grant variations or exemptions from, or approve equivalent or alternative compliance with the State Building Code where strict compliance with the State Building Code would entail practical difficulty or unnecessary hardship, or is otherwise adjudged unwarranted, provided that the intent of the law shall be observed and public welfare and safety be assured. Any person aggrieved by any decision of the State Building Inspector may appeal to the Codes and Standards Committee within 14 days after mailing of the decision in accordance with subsection (b) of section 29-254, C.G.S.

(Add) **111.1.2 Action on application:** In accordance with section 29-263, C.G.S., the code official shall examine or cause to be examined all applications for permits and amendments thereto and a permit shall be issued or refused, in whole or in part, within 30 days after the date of application. If the application or the construction documents are not in substantial compliance with the provisions of the State Building Code, the code official shall reject such application in writing, stating reasons therefore.

(Amd) **111.2 Permit fees:** Each municipality shall establish a schedule of fees for each construction document review, building permit, and certificate of occupancy. A schedule of adopted fees shall be posted for public view.

(Add) **112.3 Return of plans:** In accordance with the provisions of subsection (e) of section 29-261, C.G.S., the code official shall return plans which are on file at the time of the request for the issuance of a certificate of occupancy for any single-family dwelling or out-building to the owner of such dwelling or building no earlier than two years after the issuance of the certificate of occupancy. Unless written request

for return of such documents was made at the time that the certificate of occupancy was issued, the documents may be disposed of in accordance with the provisions of Chapter 97, C.G.S.

(Add) **113.1.6.1 Certificate of occupancy:** A certificate of occupancy, indicating completion of the work for which a permit was issued, shall be obtained prior to any occupancy of a structure. Such certificate of occupancy shall be obtained in accordance with the provisions of section 29-265, C.G.S.

(Amd) **114.1 General:** A certificate of approval by an approved agency shall be furnished with every prefabricated assembly, including modular housing, except where all elements of the assembly are readily accessible for inspection at the site. Placement of prefabricated assemblies and the connections to public utilities and private water and septic systems at the building site, as well as any site built or installed components or equipment shall be inspected by the code official to determine compliance with this code. A final inspection shall be provided in accordance with Section 113.1.6.

(Add) **114.2 Manufactured housing used as dwellings:** Provisions for foundation systems and building service equipment connections necessary to provide for the installation of new manufactured homes and existing manufactured homes to which additions, alterations or repairs are made are contained in Appendix A.

(Del) **115.0 Swimming pools, spas and hot tubs:** Delete section and subsections and replace with: The installation of private swimming pools, spas and hot tubs shall be subject to the requirements of Section 421.0 of the BOCA National Building Code/1996 portion of the State Building Code.

(Add) **118.2 Unlawful continuance:** Any person who shall continue any work in or about the structure after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe conditions, shall be liable for penalties in accordance with Section 106.2.

(Amd) **119.1 General:** Provisions for energy conservation shall be as contained in Appendix E.

## (Add) **SECTION 120 - UNSAFE STRUCTURES AND EQUIPMENT**

(Add) **120.1 General:** The procedures to be followed regarding unsafe structures and equipment shall be as set forth in Section 119.0 of the BOCA National Building Code/1996 portion of the State Building Code.

## (Add) **SECTION 121 - EMERGENCY MEASURES**

(Add) **121.1 General:** The procedures to be followed regarding emergency measures shall be as set forth in Section 120.0 of the BOCA National Building Code/1996 portion of the State Building Code.

## **CHAPTER 2 - BUILDING DEFINITIONS**

(Amd) **SECTION 202 - GENERAL BUILDING DEFINITIONS** Add the following definitions:

(Add) **ADDITION.** An increase in building area, aggregate floor area, height or number of stories of a structure.

(Add) **ALTERATION.** Any construction or renovation to an existing structure other than repair or addition.

(Add) **ATTIC, HABITABLE.** A habitable attic is that portion of an attic which has a *stairway* as a means of access and egress and in which the area of a plane established at a height of 7-1/3 feet above the attic floor is not more than one-third of the area of the next floor below. A habitable attic shall not constitute a story above grade.

[A] (Add) **HEIGHT, BUILDING.** The vertical distance from grade plane to the average height of the highest roof surface.

### CHAPTER 3 - BUILDING PLANNING

(Amd) **301.2 Climatic and geographic design criteria.** Buildings shall be constructed in accordance with the provisions of this code using the design criteria set forth in Tables 301.2a and 301.2b. These criteria shall be based solely or in part on the climatic and geographic conditions set forth in Figures 301.2a, 301.2b, 301.2c, 301.2f and 301.2g.

(Del) **Figure 301.2d.** Delete figure without substitution.

(Del) **Figure 301.2e.** Delete figure without substitution.

(Amd) **Table 301.2a.**

<b>ROOF SNOW LOAD:</b>	30 pounds per square foot
<b>WIND PRESSURE:</b>	Basic wind speeds in Appendix A of the Building Code Supplement and wind loads from Table 301.2b
<b>SEISMIC CONDITIONS BY ZONE:</b>	$A_v$ is less than 0.15; therefore no effect
<b>WEATHERING:</b>	Severe; frost line depth 42 inches
<b>TERMITE:</b>	Moderate to heavy
<b>DECAY:</b>	Slight to moderate
<b>WINTER DESIGN TEMP. FOR HTG. FACILITIES:</b>	5 Degrees F.
<b>RADON - RESISTANT CONSTRUCTION REQUIRED:</b>	No

(Add) **301.7 Ungraded lumber.** Pursuant to section 29-256b, C.G.S., the use of ungraded lumber is allowed in utility and miscellaneous structures as defined in the BOCA National Building Code/1996 portion of the State Building Code.

[A] (Amd) **305.1 Minimum height.** Habitable rooms shall have a ceiling height of not less than 7 feet for at least 50 percent of their required areas. Not more than 50 percent of the required area may have a sloped ceiling less than 7 feet in height with no portion of the required area less than 5 feet in height.



**Exceptions:**

1. The maximum projection below the required ceiling height of beams and girders spaced not less than 4 feet on center shall be 6 inches.
2. Ceiling height in basements without habitable spaces may not be less than 6 feet 8 inches clear except for under beams, girders, ducts or other obstructions where the clear height shall be a minimum of 6 feet 4 inches.
3. All other rooms including bath or toilet rooms, hallways, laundries, utility rooms and similar spaces shall have a ceiling height of not less than 7 feet measured to the lowest projection from the ceiling
4. Ceiling height in existing basements being converted to recreation rooms shall be not less than 6 feet 10 inches clear except for under beams, girders, ducts or other obstructions where the clear height shall be a minimum of 6 feet 6 inches.

(Amd) **309.1 Opening protection.** Openings from a private garage directly into a room used for sleeping purposes shall not be permitted. Other openings between the garage and residence shall be equipped with either 1 ¾-inch solid wood doors, 1 ¾-inch solid or honeycomb core steel doors or 20-minute fire-rated doors. Doors shall be fitted with a self-closing device.

(Amd) **309.2 Separation required:** Garages attached side by side to residences shall be separated from the residence and its attic area by means of a minimum 5/8-inch type X gypsum board applied to the garage side. Garages beneath habitable rooms in residences shall be separated from adjacent interior spaces by a minimum 5/8-inch type X gypsum board on the garage side of all walls, ceilings, and combustible structural supports. Gypsum board joints shall be finished in accordance with the manufacturer's requirements.

(Amd) **310.2.1 Minimum Size:** All egress or rescue windows from sleeping rooms must have a net clear opening of 5.7 square feet. The minimum net clear opening height shall be 24 inches. The minimum net clear opening width shall be 20 inches.

**Exception:** Grade floor windows may have a minimum net clear opening of 5 square feet.

(Amd) **314.2 Treads and risers:** The maximum riser height shall be 8-1/4 inches and minimum tread depth shall be 9 inches. The riser height shall be measured vertically between leading edges of the adjacent treads. The tread depth shall be measured horizontally between the vertical planes of the foremost projection of adjacent treads and at a right angle to the tread's leading edge. The walking surface of treads and landings of a stairway shall be sloped no steeper than one unit vertical in 48 units horizontal (2 percent slope). The greatest riser height within any flight of stairs shall not exceed the smallest by more than 3/8 inch. The greatest tread depth within any flight of stairs shall not exceed the smallest by more than 3/8 inch.

(Amd) **314.6 Circular stairways:** Circular stairways shall have a minimum tread depth and a maximum riser height in accordance with Section 314.2. The smaller radius of the stairway shall not be less than twice the width of the stairway. The minimum tread depth of 9 inches shall be measured from the narrower end of the tread.

[A] (Amd) **315.2 Handrail grip size.** Handrails shall have either a circular cross section with a diameter of 1 ¼ inches to 2 inches, or a non-circular cross section with a perimeter dimension of at least 4 inches, but not more than 6 ¼ inches, and a largest cross-section dimension not exceeding

2 ¼ inches, or the shape shall provide equivalent graspability. Edges shall have a minimum radius of 1/8 inch.

(Amd) **316.1.1 Alterations and additions:** When alterations or additions requiring a permit occur, or when one or more sleeping rooms are added or created in existing dwellings, the entire building shall be provided with smoke detectors located as required for new dwellings. The smoke detectors may be battery operated and are not required to be interconnected unless other remodeling considerations require removal of the appropriate wall and ceiling coverings to facilitate concealed interconnected wiring.

(Del) **SECTION 324 - PROTECTION AGAINST RADON** - Delete section and subsections without substitution.

## CHAPTER 4 - FOUNDATIONS

(Amd) **Table 401.4.1 PRESUMPTIVE LOAD BEARING VALUES OF FOUNDATION MATERIALS**

<b>CLASS OF MATERIAL</b>	<b>LOAD BEARING PRESSURE</b> (Pounds per square foot)
Crystalline bed rock	200,000
Sedimentary rock	50,000
Sandy gravel or gravel	12,000
Sand, silty sand, clayey sand, silty gravel and clayey gravel	8,000
Clay, sandy clay, silty clay and clayey silt	3,000

[A] (Amd) **403.1 General:** All exterior walls shall be supported on continuous solid masonry or concrete footings, wood foundations, or other approved structural systems which shall be of sufficient design to support safely the loads imposed as determined from the character of the soil and, except when erected on solid rock or otherwise protected from frost, shall extend below the frost line as specified in Table 301.2a. Minimum sizes for concrete or masonry footings shall be as set forth in Table 403.1 and Figure 403.1a. Footings for wood foundations shall be in accordance with the details set forth in Section 403.2, Figure 403.1b and Figure 403.1c.

**Exception:** Accessory structures of wood frame, steel or plastic construction, 200 square feet or less in area are permitted to be installed above grade on a base of naturally durable wood, preservative treated wood, concrete, masonry or other approved material. Such structures are not required to be designed to resist or protect against frost action, but shall be designed to resist or protect against movement from wind.

## CHAPTER 6 - WALL CONSTRUCTION

(Del) **602.7.1.1 Unfaced fiberglass:** Delete without substitution.

## CHAPTER 9 - ROOF COVERINGS

(Amd) **903.1 General:** Asphalt shingles shall conform to ASTM D225-95, Specification for Asphalt Shingles (Organic Felt) Surfaced with Mineral Granules, or D3462-93a, Specification for Asphalt Shingles Made from Glass Felt and Surfaced with Mineral Granules, and shall be applied only to solidly sheathed roofs. Asphalt shingles shall be applied according to the manufacturer's printed instructions and this code.

[A] (Add) **903.4.1 Special wind regions.** Asphalt strip shingles shall have a minimum of six fasteners per strip shingle where the basic wind speed is 80 miles per hour or greater, as determined in accordance with Appendix A of the BOCA National Building Code/1996 portion of the Connecticut Supplement.

(Amd) **910.3 Recovering vs. replacement:** New roof covering shall not be installed without first removing existing roof coverings when any of the following conditions occur:

1. When the existing roof or roof covering is water soaked or deteriorated to the point of being unacceptable as a base for additional roofing.
2. When the existing roof covering is wood shake, slate, clay or cement tile; except when the new roof covering is installed in accordance with approved industry standards.
3. When the existing roof has two or more layers of any type of roofing.

**Exception:** The removal of existing roof coverings shall not be required where complete and separate roofing systems are provided which transmit all roof loads directly to the structural system of the building and which do not bear upon the existing roof.

## CHAPTER 38 - PRIVATE SEWAGE DISPOSAL

(Amd) **3801.1 Scope:** Installations shall be approved in accordance with this code and the regulations enforced by the local health director in accordance with the Public Health Code of the State of Connecticut adopted pursuant to section 19a-36, C.G.S.

(Del) Delete all other sections within this chapter without substitution.

## CHAPTERS 39 - 46

(Del) **Chapters 39 through 46:** Delete Chapters 39 through 46 in their entirety and replace with: All electrical installations shall be in accordance with the 1999 National Electrical Code (NFPA 70-1999).

## APPENDIX A - MANUFACTURED HOUSING USED AS DWELLINGS

### (Amd) SECTION A 101 SCOPE

These provisions shall be applicable only to a manufactured home used as a single dwelling unit and shall apply to the following:

1. Construction, alteration and repair of any foundation system which is necessary to provide for the installation of a manufactured home unit.
2. Construction, installation, addition, alteration, repair or maintenance of the building service equipment which is necessary for connecting manufactured homes to water, fuel, or power supplies and sewage systems.

3. Alterations, additions or repairs to existing manufactured homes. The construction, alteration, moving, demolition, repair and use of accessory buildings and structures and their building service equipment shall comply with the requirements of the State Building Code.

These provisions shall not be applicable to the design and construction of manufactured homes and shall not be deemed to authorize either modifications or additions to manufactured homes where otherwise prohibited.

## **APPENDIX D**

(Del) **APPENDIX D - SWIMMING POOLS, SPAS AND HOT TUBS:** Delete Appendix D in its entirety and replace with: The installation of private pools, spas and hot tubs shall be subject to the requirements of Section 421.0 of the BOCA National Building Code/1996 portion of the State Building Code.

## **APPENDIX F**

(Del) **APPENDIX F - RADON CONTROL METHODS** Delete Appendix without substitution.

## **CABO ELECTRICAL PROVISIONS/NEC CROSS REFERENCE**

(Del) **CABO ELECTRICAL PROVISIONS/NEC CROSS-REFERENCE, Pages 331, 332, 333, 334, 335, 336, 337, 338 and 339.** Delete without substitution.

## **AMENDMENTS TO THE 1999 NATIONAL ELECTRICAL CODE (NFPA - 70 - 1999)**

(Amd) **90-4 Enforcement.** The administration of this code shall be conducted in accordance with the provisions of Chapter 1 of the BOCA National Building Code/1996 portion of the State Building Code as herein amended.

## AMENDMENTS TO THE 1995 MODEL ENERGY CODE

### CHAPTER 1 – ADMINISTRATION AND ENFORCEMENT

[A] (Add) **101.4.3.1.1 Prescriptive requirements for greenhouse and sunroom additions.** As an alternative to demonstrating compliance with Sections 402, 403 or 502.2, greenhouse and sunroom additions shall meet the prescriptive envelope criteria in Table 101.4.3.1.1. R-values refer to installed insulation only. For installed components with different R- or U- values, area-weighted averages shall be used to determine compliance with Table 101.4.3.1.1. All greenhouse and sunroom additions shall be served by a heating or cooling system that is either separate and independent from that of the existing dwelling or they shall be served by a separate and independent zone of the main heating or cooling system.

Greenhouse additions that are freestanding or attached to the outside of the existing building envelope and that may be closed off from the existing dwelling through the use of opaque walls and fixed or operable doors and windows shall be 400 square feet or less in area and shall have a maximum area-weighted fenestration U-value of 0.60.

Sunroom additions that are free-standing or attached to the outside of the existing building envelope and that may be closed off from the existing dwelling through the use of opaque walls and fixed or operable doors and windows shall be 500 square feet or less in area, shall have operable windows or doors equal to a minimum of 20% of the sunroom floor area and shall have a maximum area-weighted fenestration U-value of 0.50.

Sunroom additions that are connected with an existing conditioned space via a permanent opening shall be 350 square feet or less in area and shall have a maximum area-weighted fenestration U-value of 0.45.

#### [A] (Add) **Table 101.4.3.1.1**

##### **Prescriptive envelope component criteria for greenhouse and sunroom additions**

Minimum opaque ceiling R-value	R-19
Minimum floor over unheated space R-value	R-19
Minimum opaque wall R-value	R-11
Minimum slab-on-grade perimeter insulation R-value	R-5
Minimum slab-on-grade perimeter insulation depth	2 feet

### CHAPTER 2 – DEFINITIONS

#### **Section 201 – General Definitions** Add the following definitions:

[A] (Add) **GREENHOUSE.** A one-story structure, enclosing a nonhabitable space, that has a glazing area in excess of 50% of its gross exterior wall and roof area.

[A] (Add) **SUNROOM.** A one-story structure, enclosing a habitable space, that has a glazing area in excess of 50% of its gross exterior wall and roof area, and operable doors and windows equal to a minimum of 20% of the floor area.

(Effective May 1, 1999; Amended April 7, 2000)